

Wed May 1 07:51:14 2002

us-09-248-178-64.rng

Page 3

[illegible]

XX	17	7-17-2001 (first entry)	
XX	18	Stem sequence of human breast tumor clone 55335.	
XX	19	human breast tumor antigen; cytotoxic; immunotherapy;	
XX	20	breast cancer vaccine, 55.	
CS	21	homo sapiens	
XX	22	homo sapiens	
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XX	93	homo sapiens	
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XX	97	homo sapiens	
XX	98	homo sapiens	
XX	99	homo sapiens	
XX	100	homo sapiens	

[illegible]

[illegible]

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Query Match      2.5%; score 29; db 21; length 1308;
Best local Similarity 100.0%; Pred. NO. 0.017;
Matches 29; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy	616	gattgcatgtaatctgtagatgcttgg	646
62 <td>740 <td>gattgcatgtaatctgtagatgcttgg <td>766</td> </td></td>	740 <td>gattgcatgtaatctgtagatgcttgg <td>766</td> </td>	gattgcatgtaatctgtagatgcttgg <td>766</td>	766

```

RESULT 7
AA059633YC
ID AA059633 standard; CDNA: 315 bp
XX
AC AA059633:

```

CI	16-MAR-1994	(first entry)
XX		
CE	Human Brain Expressed Sequence Tag EST01495	

KM Gene transcription; product; genetic markers; lagging; in vivo;
XX Transcription; mapping; locators; chromosomes; chromosomal; 59
CS Homo sapiens.
NM M0716178-4
XX XX

XX

FD 19-AUG-1993
XX

FF	12-12-1993	93MC-0501294
XX		

12-EEB-1992; 92US-0637195

(UŠSH) US DEPT HEALTH & HUMAN
XX

PI Adjuntas Mt., Moreno Rf, Ventura
XX

WFI; 1993-272882/34.

Enriched oligonucleotides an-

PI of most human genes

Example 4: Page 207; 500pp;

CC The Expressed Sequence Tag

CC for human genes transcribed

CC carrying of most human genes.
CC chromosomes, for individual

type, and for prep. of anti-

CC coding-region has a 'poor' coding pre

Serum glucose 319 BP: 176 A: 42

Query Match	2.7%
Best local similarity	100.0%

Matches 47: Conservative

PX	(HUNK-)	HUMAN GENOME SCI 11C.
PA		
XX	Kuter, SM,	Kematsoulis GN, Baker KP, Young PE;
XX		
XX	WPI:	2601-316(49)/73.
DR	F-P5DB:	A8E01750.
EK		
FX	New nucleic acid molecules encoding human, secreted proteins, used in preventing, treating or ameliorating a disorder, e.g., Alzheimer's and Parkinson's diseases and cancers	
Pt		
Pf	Claim 1:	Page 436-437; 567pg.: English.
PS		
CC	AAD05379-	AMD05658 represent cDNAs corresponding to 28 human secreted protein genes and AAB01770-AAB01845 represent the proteins they encode.
CC	AAB01850-AAB01960	represent human secreted protein representing variants of the genes underlying normal medical conditions e.g., by protein or gene therapy. Pathological conditions can be diagnosed by determining the amount of the new protein in a sample or by determining the presence of mutations in the new genes. Specific uses are described for each of the 28 genes, based on the tissues in which they are most highly expressed, and include developing products for the diagnosis or treatment of proliferative disorders, cancer, immunodeficiencies, infectious diseases, allergic autoimmune diseases (e.g., rheumatoid arthritis), inflammation, allergies, neurological disorders (e.g., Alzheimer's disease, Parkinson's disease), cognitive disorders, schizophrenia, asthma, skin disorders (e.g., psoriasis), sepsis, diabetes, atherosclerosis, cardiovascular disorders, angioneurotic edema, kidney disorders, gastrointestinal disorders, pregnancy-related disorders, endocrine disorders, and infection. The proteins can be used to prevent skin aging due to sunburn, to maintain organs before transplantation, for supporting cell culture of primary tissues, to regenerate tissues, to identify their cognate ligands or binding partners, and in chemotherapy, and can be used as a food additive or preservative to modify storage properties.
CC	Antibodies specific for a protein of the invention can be used in alleviating symptoms associated with the disorders mentioned above, and in diagnostic immunoassays. E.g., the present sequence represents a human secreted protein encoding CDNA of the invention.	
CC		
CX		
XX	Sequence 1517 BP:	558 A: 286 C: 345 G: 724 T: 0 other:
SJ		
Query Match:		
Blast Local Similarity	100.0%:	Score 27: DB 22: Length 1917:
Matches 27:	Conservative 0: Mismatches 0:	Gaps 0:
Uj	618 gatcattgaaatccagtcaggcttt	644 ttttttttttttttttttttttttttttt
Dd	364 gatcgtcgtaacgcagtgaactgttt	350
RESULT 1)		
AAATG3560		
CL	AAATG3560 standard:	cDNA: 2781 BP.
XX		
XX	AAATG3560:	
A2		
A1	04-Oct-2001	(first entry)
XZ		
XX	human helix-desstabilising enzyme C20 coding sequence.	
XX	Human: helix-desstabilising enzyme C20: cytosolic; Virucide;	
FX	Immunomodulatory; antiinflammatory; haemostatic; gene therapy;	
XX	Tumorigenic tumor: haemophagy; HIV infection; immunological disease;	
XX	Inflammation; ss.	
XJ		
XX	Homio sapiens.	

FI	11:00N	2328-5746
FI		/tag=9
FI		/number=3
FI	exch	5747..5696
FI		/tag=h
FI		/number=4
PN	WJ06B53-AZ.	
PD	U2-JUL-1996.	
XX		
XX	23-DEC-1997.	57NO-0523761.
PF		
XX	20-DEC-1996.	56DS-0774440.
PA	(TEXA) UNIV TEXAS SYSTEM.	
PX		
PI	Ariizumi K, Takashima A;	
DX	HepI: J548-37754/72.	
DR	P-P50B5 AA6G3010.	
XX		
XX	Nucleic acid encoding dendritic cell specific peptide(s) dectin-1	
PI	and -2 - useful, e.g. to regulate immune response, as vaccine	
FI	adjuvants, for diagnosis and drug screening	
XX		
XX	Claim 7; page 159-165; 200pp; English.	

endothelial cell (EC) specific member of the C-type lectin family, binding DC-associated C-type lectin-2, or decalin-2 (see AAm03010). This member DC-associated C-type lectin-2, or decalin-2 (see AAm03010). This member EC that is essential for DC-mediated T cell activation. This novel gene is expressed selectively by long-term EC lines (XS series) from murine epidermis. Decalin-2 cDNA (see AAm425549), has also been isolated. The invention provides: decalin-1 and decalin-2 polypeptides (see also AAm61005-22 and AAm6526-31); useful for purifying T cells; for detecting autoantibodies and for

CC cells; probes and primers useful e.g. for identifying human

CC useful for studying dectin function and for drug screening; and
CC dectin ligands. Dectin expression can be downregulated by

CC genes by homologous recombination, e.g. abrogation of decr1 expression is useful for treating allergy and autoimmune

provide long-term non-responsiveness to the antigen. The decision to use a particular antigen should be based on the ability of the antigen to be used to target gene expression to NC. Since the antigen can be used to target gene expression to NC, it is

CC targeted to them should not induce tolerance.
XX

1000

Matches	27;	Conservative	0;	Mismatches	0;	Indels	0;
---------	-----	--------------	----	------------	----	--------	----

Ld 10352 gatgcattgatactglagatcgctt 10378

RESULT IS
P A V A T T A T

XX
XX
AC
PAX63005:

DT 31-AUG-1999 (first entry)
 XX Partial mouse WRN genomic sequence #1.
 DE
 XX Mouse; WRN; Werner's syndrome; detection; diagnosis; autosomal;
 XX recessive disorder; phenotype; ss.
 XX Mus musculus.
 OS
 XX MO9724435-A1.
 PN
 XX 10-JUL-1997.
 PD
 XX 30-DEC-1996; 96MO-US20785.
 PE
 XX 12-APR-1996; 96US-0632175.
 PR 29-DEC-1995; 95US-0009409.
 PR 29-DEC-1995; 95US-0580535.
 PR 30-JAN-1996; 96US-0010835.
 PR 30-JAN-1996; 96US-0594212.
 XX (DARM-) DARWIN MOLECULAR CORP.
 PA (OSHI/) OSHIMA J.
 XX Fu Y, Mulligan J, Oshima J, Schellenberg GD, Yu C;
 XX WPI: 1997-363671/33.
 DR
 XX Isolated nucleic acid molecule encoding the WRN gene product
 PT useful for detection and treatment of Werner's syndrome, and related
 PT diseases
 PS
 XX Claim 1: Fig 7; 153pp; English.
 CC This sequence represents a fragment of the genomic sequence containing
 CC the coding region for the mouse WRN gene (AA83004). The corresponding
 CC human gene (AA83001) encodes a protein related to Werner's syndrome.
 CC The products can be used for the detection and treatment of Werner's
 CC syndrome (WS); an autosomal recessive disorder with a complex phenotype,
 CC as well as related diseases.
 CC
 XX Sequence 29604 BP; 7634 A; 5861 C; 5985 G; 10123 T; 1 other:

Query Match 2.7% Score 27; DB 18; Length 29604;
 Best Local Similarity 100.0%; Pred. No. 0.075;
 Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 618 gatgcattgaatcgtgagattgctt 644
 |||
 DB 22046 gatgcattgaatcgtgagattgctt 22072

RESULT 14
 AA61522/C
 ID AA61522 standard; DNA: 44576 BP.
 XX
 AC AA61522;
 XX
 DT 19-JUN-2000 (first entry)
 DE
 XX Cosmid CVO14 containing rat vasopressin and oxytocin locus.
 XX Oxytocin expressed sequence tag: 5'-OT EST; obesity; fertility; male;
 XX transgenic animal; human late onset obesity; late onset visceral obesity;
 XX male infertility; wasting; anorexia; cachexia; malabsorptive state;
 XX catabolic state; inflammatory condition; Crohn's disease; AIDS wasting;
 XX burn; cancer; bone disease; vasopressin; oxytocin; ss.
 OS
 XX Rattus sp.
 XX
 XX WO200005686-A1.

PD 24-FEB-2000.
 XX 12-AUG-1999; 96MO-GB02658.
 XX
 PR 12-AUG-1999; 96MO-0017566.
 PR 06-MAY-1999; 96OB-0010522.
 XX
 XX (MEDI-) MEDICAL RES COUNCIL.
 PA
 XX Robinson ICAF, Stoye JP, Flavell D, Wells SE, Le Tissier P;
 XX WPI: 2000-224331/15.
 PI
 XX New anti-obesity polypeptide useful for treating obesity or infertility
 PI in humans
 PS
 XX Claim 5: Page 129-154; 162pp; English.
 CC The present sequence represents cDNA CVO14, which contains the rat
 CC vasopressin and oxytocin (5'-OT) gene. The specific sequence describes 5'-OT EST
 CC isolated to the control of obesity and fertility in males. 5'-OT EST
 CC nucleic acids are useful for producing transgenic animals. The
 CC transgenic animals created serve as a model for human late onset
 CC obesity and other related disorders and are also used for identifying
 CC the genetic cause of obesity. Compounds which modulate 5'-OT EST
 CC expression or activity are useful in the treatment or modulation of
 CC late onset visceral obesity or male infertility, malabsorption, or
 CC disorders related to these conditions, including anorexia,
 CC or cachexia, wasting, inflammatory condition, Crohn's disease, or AIDS wasting,
 CC conditions associated with other diseases such as inflammatory
 CC conditions, Crohn's disease or AIDS wasting, or burns, or cancer, or
 CC bone disease.
 CC
 XX Sequence 44576 BP; 12157 A; 10593 C; 10857 G; 10569 T; 0 other:

Query Match 2.7% Score 27; DB 23; Length 44576;
 Best Local Similarity 100.0%; Pred. No. 0.072;
 Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 618 gatgcattgaatcgtgagattgctt 644
 |||
 DB 18092 GAT13CAT1GAT1GAT1GAT1GCT11 18066

RESULT 15
 AA116817
 ID AA116817 standard; DNA: 535 BP.
 XX
 AC AA116817;
 XX
 DT 12-OCT-2001 (first entry)
 DE
 XX Probe 16750 for gene expression analysis in human cervical cell sample.
 XX Probe: human; microarray; gene expression; cervical epithelial cell;
 XX cervical cancer; ss.
 XX
 OS
 XX Homo sapiens.
 XX
 XX WO200157278-A2.
 PN
 XX 09-AUG-2001.
 PD
 XX 30-JAN-2001; 2001MO-US00670.
 PE
 XX 04-FEB-2000; 2000US-0180312.
 PR 26-MAY-2000; 2000US-0207456.
 PR 26-JUN-2000; 2000US-0609346.
 PR 21-APR-2000; 2000US-0214687.
 PR 27-SEP-2000; 2000US-0236355.

[illegible]

Query Match 2.54: Score 25; DB 22; Length 554;
 Best Local Similarity 100.0%; Pred. No. 0.72; Mismatches 0; Indels 0; Gaps 0
 Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0
 Oy 337 ctgcctattcctactaacataag 361
 |||
 Db 9 ctgcctattcctactaacataag 33

RESULT 18

AA139509 standard: DNA: 554 BP.

AA139509:

17-OCT-2001 (first entry)

Probe #8195 used to measure gene expression in human placenta sample.

Probe: microarray; human; placenta; antenatal diagnosis;

genetic disorder; ss.

Homo sapiens.

W0200157272-A2.

09-AUG-2001.

30-JAN-2001; 2001MO-US00663.

04-FEB-2000; 2000US-0180112.

26-MAY-2000; 2000US-0207436.

30-JUN-2000; 2000US-0207436.

21-SEP-2000; 2000US-0234687.

27-SEP-2000; 2000US-0234687.

04-OCT-2000; 2000GB-0024263.

(MOLE-) MOLECULAR DYNAMICS INC.

Penn SQ, Hanzel DK, Chen W, Rank LW;

WPI: 2001-188897/53.

Human genome-derived single exon nucleic acid probes useful for

analyzing gene expression in human placenta.

Claim 25: SEQ ID NO 8195; 654bp; English.

The present invention relates to single exon nucleic acid probes (SEQ-1).

The present sequence is one such probe. The probes are displaying gene

producing a microarray of probes derived from human placenta. The probes are used

for antenatal diagnosis of human genetic disorders.

Sequence 554 BP: 147 A; 100 C; 113 G; 194 T; 0 other;

Query Match 2.54: Score 25; DB 22; Length 554;
 Best Local Similarity 100.0%; Pred. No. 0.72; Mismatches 0; Indels 0; Gaps 0
 Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0
 Oy 337 ctgcctattcctactaacataag 361
 |||
 Db 9 ctgcctattcctactaacataag 33

RESULT 19

AA02701 standard: DNA: 27150 BP.

AA02701: (first entry)
 02-MAY-2001
 Human glycosyl sulfotransferase-6 (GST-6) genomic DNA 11.

Human: glycosyl sulfotransferase-6; GST-6; immunosuppressive;
 therapy; selective binding inhibitor; gene therapy; cystic fibrosis;
 systemic lupus erythematosus; SLE; rheumatic scleritis; dermatitis;
 polyarthritis nodosa; polyarthritis nodosa; Sjogren's syndrome; adenitis;
 glomerulonephritis; glomerulonephritis; glomerulonephritis; glomerulonephritis;
 demyelinating disease; cirrhosis; ulcerative colitis; allergic rhinitis;
 myocarditis; adult respiratory distress syndrome; eczema; psoriasis;
 asthma; hypersensitivity; rheumatic fever; tissue rejection; ds.

Homo sapiens.

W0200106015-A1.

25-JAN-2001.

15-JUL-2000; 2000US-0319741.

20-JUL-1995; 5903-0144694.

13-JUL-2000; 2000US-0538628.

(RENC) UNIV CALIFORNIA.

Kosen SD, Lee JK, Hemmerich S;

WPI: 2001-138471/14.

New glycosyl sulfotransferases (GST)-alpha, GST-beta and GST-6 for

diagnostic and therapeutic agent screening applications.

Example 2: Page 116-123; 128bp; English.

The present sequence is human glycosyl sulfotransferase-6 (GST-6)

genomic DNA. GST-6 is a type 2 membrane protein useful for inhibiting a binding event

between a selectin and a selectin ligand, which comprises contacting the

selectin with a non-sulphated selectin ligand. GST and a small molecular

agent that inhibits the sulphation activity of GST. GST is also useful

in inhibiting a selectin mediated binding event. GST is useful in gene

therapy to treat disorders such as acute or chronic inflammation,

systemic lupus erythematosus (SLE), rheumatoid arthritis, polyarthritis

nodosa, polyarthritis nodosa, Sjogren's syndrome, Hashimoto's

glomerulonephritis, myasthenia gravis, Sjogren's syndrome, Hashimoto's

disease, demyelinating diseases, cirrhosis, ulcerative colitis,

dermatitis, myocarditis, regional enteritis, adult respiratory distress

syndrome, infantile eczema, psoriasis, lichen planus, allergic rhinitis,

bronchial asthma, hypersensitivity, rheumatic fever and tissue rejection

during transplantation.

Sequence 27150 BP: 8357 A; 5396 C; 5398 G; 7556 T; 1 other;

Query Match 2.54: Score 28; DB 22; Length 27150;
 Best Local Similarity 100.0%; Pred. No. 0.46; Mismatches 0; Indels 0; Gaps 0
 Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0
 Oy 337 ctgcctattcctactaacataag 361
 |||
 Db 23410 ctgcctattcctactaacataag 23413

RESULT 20

AA253815 standard: DNA: 14460 BP.

AA253815:
 13-JUL-2000; 2000US-0538628.
 (RENC) UNIV CALIFORNIA.
 Kosen SD, Lee JK, Hemmerich S;


```
PR 30-MAR-1995: 9905-0126503.
PR 30-MAR-1995: 9905-0126501.
PR 30-MAR-1995: 9905-0126502.
PR 14-JUL-1995: 9905-0143928.
PR 14-JUL-1995: 9905-0143928.
PR 27-JUL-1995: 9905-0145915.
PR 29-JUL-1995: 9905-0146452.
PR 29-JUL-1995: 9905-0146453.
PR 28-OCT-1995: 9905-0162288.
XX (GEST ) GENSET.
PA
XX Cohen D, Blumenfeld M, Chumakov I, Bouguetelat L, Hainin B:
PI Esstieux L.
XX WPI: 2000-619082/55.
XX Polynucleotides comprising sequences from sbgl and g35016 biallelic
PT markers are used for genotyping and detecting schizophrenia or bipolar
PT disorder and predisposition to these disorders -
XX
XX Claim 1: Page 405-493: 737pp: English.
XX
XX AAH51601 represents a human genomic nucleotide sequence comprising sbgl.
CC 63465 sbgl 35017 and g35019 nucleotide sequences located on the
CC human chromosome 13q31-q33 locus. The nucleotide sequences contain
CC biallelic markers and polymorphisms. Sequences AAH51602 - AAH51628 and
CC AAH62907 - AAH62915 represent cDNA human sbgl cDNA sequences and protein
CC products. AAH51627 - AAH51631 and AAH62916 - AAH62918 represent g35016
CC cDNA sequences and protein products. Primers AAH51632 - AAH51659 are used
CC to isolate sbgl cDNAs, while sbgl exons from different primates are
CC represented by sequences AAH51642 - AAH51659. Nucleotide sequences of
CC amplicons which comprise biallelic markers located on the chromosome
CC 13q31-q33 locus are represented in AAH51602 - AAH51631. In the codes "A"
CC and "G" represent the nucleotide bases adenine and guanine, respectively.
CC primers AAH51818 and AAH51819 are used in the isolation of sequences of
CC the invention. The biallelic marker containing nucleotide sequences are
CC used to determine the identity of the nucleotide at a biallelic marker in
CC a sample DNA sequence. The nucleotide sequences may be labelled and used
CC for genotyping by determining the identity of a nucleotide at a Region
CC D-related biallelic marker in a biological sample from single or multiple
CC subjects. By determining the frequency of a biallelic marker in a
CC population an association between a genotype and a trait, a haplotype and
CC a specific phenotype and/or a disease can be detected. The nucleotide
CC sequences are used to determine the predisposition to or onset of schizophrenia or
CC bipolar disorder or a beneficial response to or side effects related to
CC treatment against schizophrenia or bipolar disorder.
XX
XX Sequence 319608 BP: 101600 A: 56677 C: 58335 G: 102722 T: 274 other:
XX
XX Query Match 2.5%: Score 25: DB 21: Length 319608:
XX Best Local Similarity 100.0%: Pred. No. 0.35:
XX Matches 25: Conservative 0: Mismatches 0: Indels 0: Gaps 0:
XX
XX 334 tgcgcgctattccattcaacata 358
XX ||||||||||||||||||||||||
DB 251041 tgcgcgctattccattcaacata 251065
XX
XX RESULT 22
XX AAS09301
XX ID AAS09301 standard: DNA: 319608 BP.
XX
XX AAS09301:
XX 26-SEP-2001 (first entry)
XX
XX Human schizophrenia associated gene g35030 and biallelic markers A1-A71.
DE Human: g35030: biallelic marker: A1-A71: chromosome 13q31-q33.
XX
XX Human: g35030: biallelic marker: A1-A71: chromosome 13q31-q33.
KW schizophrenia: bipolar disorder: ds.
XX
XX Homo sapiens.
OS
```

Wed May 1 07:51:14 2002

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Page 14

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FT primer_bind /note= "Blinds primer 99-24634-108.mis complement"
FT 107022..107040
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FT /note= "Blinds primer 99-24656-pu"
FT 107262..107280
FT /tag= z
FT /note= "Blinds primer 99-24656-260.mis"
FT 107269..107293
FT /tag= aa
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FT 107281..107288
FT /tag= ab
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FT complement (107282..107300)
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FT complement (106993..107015)
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FT /note= "Blinds primer 99-7652-rp complement"
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FI /note= "Biallelic marker A9"
FI complement (170811..170829)
FI /tag= ba
FI /note= "Blinds primer 99-16100-147.mis complement"
FI complement (171153..171175)
FI /tag= bb
FI /note= "Blinds primer 99-16100-rp complement"
FI 173065..173085
FI /tag= bc
FI /note= "Blinds primer 99-5862-167"
FI 173339..173357
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FI /note= "Blinds primer 99-5862-167"
FI 173346..173370
FI /tag= be
FI /note= "Blinds primer 99-5862-167"
FI 173358..173378
FI /tag= bf
FI /note= "Biallelic marker A10"
FI complement (173359..173377)
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FI /note= "Blinds primer 99-5862-167.mis complement"
FI complement (173455..173514)
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FI /note= "Blinds primer 99-5862-pu complement"
FI 189753..189771
FI /tag= bi
FI /note= "Blinds primer 99-5915-pu"
FI 189936..189956
FI /tag= bj
FI /note= "Blinds primer 99-5915-215.mis"
FI 189956..189976

Query Match: 2.5% Score 25; DB 22; Length 315608;
Best local similarity: 100.0%; P: 0.35;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

334 tgcctgcttattcattcaacata 338
|||||
Cb 251041 tgcctgcttattcattcaacata 251065

RESULT 23
ID AAC28302
AC AAC28302:
XX
DI 06-OCT-2000 (first entry)
XX
DE Human secreted protein 5' EST, SEQ ID NO: 33277.
XX
XX Human: 5' EST: expressed sequence tag; secreted protein; cDNA isolation;
XX gene therapy; chromosome mapping; ss.
XX
XX Homo sapiens.
XX
XX EP103401-A2.
XX
XX 06-SEP-2000.
XX
XX 21-FEB-2000; 2000EP-0200610.
XX
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[illegible][illegible]

[illegible]

FT /*tag- ad
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FT 89459..69745
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FT 92406..94789
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FT 93556..100121
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FT 10486..109841
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FT 116846..117907
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FT 117959..118623
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FT 122978..186088
FT /*tag- ar
FT /label- EST_matching_region
FT /note- *This sequence is specifically claimed. The
FT range given for this feature is as stated in the
FT specification but is clearly wrong
FT /*tag- as
FT /label- EST_matching_region
FT /note- *This sequence is specifically claimed*
FT misc_feature
FT 60870..62451

FI misc_feature 131138..134226
FI /*tag- EST_matching_region
FI /note- *This sequence is specifically claimed*
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Query Match 2.48: Score 24: L6 22: Length 160271:
Best local Similarity 100.0%; Pred. No. 0.94;
Matches 24: Conservative 0: Mismatches 0: Gaps 0:
C7 334 tgcctgcttattccttcaat 357
Lo 146597 tgcctgcttattccttcaat 146974
RESULT 27
AA50667/c ID AA50667 standard: DNA: 160271 BP.
XX AA50667:
XX 12-SEP-2001 (first entry)
XX
XX Human chromosome 18q, 160kb sequence.
XX
XX Human: 18q; fsl23: neuropsychiatric disorder: schizophrenia;
KW neurodegenerative disease: Alzheimer's disease;
KW brain tumor; diabetes: angina pectoris; ds.
XX
XX Homo sapiens.
XX
XX Key
XX Location/Qualifiers
XX primer_bind
XX 28384..28405
XX /*tag- a
XX /note- *PCR primer BADI6C122 forward*
FI misc_feature 28441..29265
FI /*tag- b
FI /note- *This region is specifically claimed*
FI misc_feature 29683..32587
FI /*tag- c
FI /note- *This region is specifically claimed*
FI misc_feature 28441..144419
FI /*tag- d
FI /note- *Region associated with neuropsychiatric
FI disorders*
FI primer_bind
FI complement (26547..26572)
FI /*tag- e
FI /note- *35K primer BADI6C122 reverse*
FI misc_feature 32833..43263
FI /*tag- f
FI /note- *This region is specifically claimed*
FI misc_feature 43518..46075
FI /*tag- g
FI /note- *This region is specifically claimed*
FI misc_feature 47264..52284
FI /*tag- h
FI /note- *This region is specifically claimed*
FI CDS 51458..63491
FI /product- *Fah23*
FI /note- *Fah23 gene region*
FI misc_feature 52672..56935
FI /*tag- j
FI /note- *This region is specifically claimed*
FI misc_feature 57032..57726
FI /*tag- k
FI /note- *This region is specifically claimed*
FI misc_feature 58063..58057
FI /note- *This region is specifically claimed*
FI misc_feature 59815..60471
FI /*tag- m
FI /note- *This region is specifically claimed*
FI misc_feature 60870..62451

[illegible]

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FT misc_feature 81888..85946.
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FT misc_feature 117999..118673

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FI /note- This sequence is specifically claimed in Claim 1.
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FI /note- This sequence is specifically claimed in Claim 1.
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FI /note- This sequence is specifically claimed in Claim 1.
FI misc_feature 140683..144419
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XX Wo00134411.A1.
XX 17-MAY-2001.
XX 08-NOV-2000: 200600-0530624.
XX 08-NOV-1999: 5905-0164037.
XX (MILL-) MILLENNIUM PHARM INC.
XX (REG) ORCA CALIFORNIA.
XX Chen H. Friedman RB:
XX WPI: 2001-335946/35.
XX
XX Claim 1: Fig 1b: 174pp: English.
XX
XX The present sequence is a 116 kb fragment located between markers
XX A018322 and B018321 from human chromosome 18q. This sequence includes
XX the 1q interval associated with neuropsychiatric disorders, located from
XX positions 24411-14419. This sequence also contains a novel gene: fsh26
XX gene. The fsh26 gene is associated with bipolar affective disorder (BPD;
XX also known as bipolar mood disorder; BP; or manic-depressive illness) in
XX humans. The present sequence of its fragment, analog of fsh26 is useful
XX for treating a fsh26-related disorder, such as bipolar affective
XX disorder, manic-depressive disorder, schizophrenia, bipolar affective
XX disorder and unipolar disorder. Also, neurodegenerative disorders such as
XX Alzheimer's disease, senile dementia, Huntington's disease, amyotrophic
XX lateral sclerosis, and Parkinson's disease, as well as Gilles de la
XX Tourette's syndrome, autonomic function disorders such as hypertension
XX and sleep disorders can be treated.
XX
XX Sequence 160271 BP: 45618 A: 32564 C: 34926 G: 46703 T: 58 other:
XX
XX Query Match: 2.44: Score 24: Lb 22: Length 160271:
XX Best Local Similarity 100.0%: Pred. No. 0.94:
XX Matches 21: Conservative 0: Mismatches 0: Indels 0: Gaps 0:
XX
XX 334 TGTGCTGATCTTCTTCACTTCACT 337
XX GG 14597 TGTGCTGATCTTCTTCACTTCACT 14597

FI	product: "Human 27875 ALAM-TS protein"	
FI	/transl_except= {Pos:1021..1023, aa:Yaa}	
FI	/note= "Yaa is an unknown amino acid"	
FI	35..125	
FI	519-peptide	/seq=D
FI	126..5093	/seq=C
FI	mat-peptide	/tag=C
FI		/product= "Human mature 27875 ALAM-TS protein"
XX	W200031024.A1.	
XX	03-MAY-2001.	
FL		
FF	25-COI-2000: Z000A00-US29380.	
FR	25-COI-1999: 5303-G426282.	
XX		
FA	(MILL.) MILLENNIUM PHARM INC.	
XX		
FI	Repeller-Lib+anti K, White D:	
FI	NCI: 2603-100513/31.	
XX	P-PSDB: RA600513.	
XX		
FI	Revel isolated polypeptide, 27875, a human ALAM-TS (a disintegrin and	
FI	metalloproteinase) useful for diagnosis and treatment of disorders of	
FI	bone, lung, heart, skeletal muscle such as osteoporosis, emphysema,	
FI	Anglia	
PS	Claim 7: Page 115-123; 133pp; English.	
XX		
CC	The present sequence is an alternative version of a cDNA encoding	
CC	27875 protein, a human proteolytic enzyme involved in protein	
CC	metabolic protein degradation, tumor growth, metastasis and	
CC	osteoporosis. Nucleotides encoding 27875, 27875 protein and its	
CC	analogs are useful for preventing, diagnosing and treating	

[illegible]

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XX Human: 5' EST, expressed sequence tag, secreted protein, CDNA isolation;
 XX gene therapy; chromosome mapping; 3s;
 XX Hemo sapiens.
 XX
 XX EP103401-A2
 XX
 XX 06-SEP-2000.
 XX
 XX 21-FEB-2000; 2000EP-0200610.
 XX
 XX 26-FEB-1999; 5905-0122487.
 XX
 XX (GSE1) GENSEL.
 XX
 XX Emma Mline Edwards J, Duclert A, Giordano J;
 XX WPI: 2000-50usel/15.
 XX
 XX New nucleic acid tag is a 5' expressed sequence tag (5' EST) for
 XX containing class as a genetic marker that correspond to 5'ESTs and for
 XX diagnostic, forensic, gene therapy and chromosome mapping procedures.
 XX
 XX Claim 1: SEQ ID 31047: 71bp * CD-ROM: English).

XX The present sequence is one of a large number of 5' ESTs derived from
 XX mRNAs encoding secreted proteins. No ORF has yet been conclusively
 XX identified within the present sequence. The 5' ESTs were prepared from
 XX total human RNA or poly(A) RNAs derived from 3' untranslated region (UTR)
 XX sequences usually of poly(A) RNAs. Such ESTs are often created from oligo-dT primed cDNA
 XX libraries. Such ESTs are not well suited for isolating cDNA sequences
 XX derived from the 5' ends of mRNAs and even in those cases where longer
 XX cDNA sequences have been obtained, the full 5' UTR is rarely included.
 XX 5' ESTs are derived from mRNAs with intact 5' ends and can therefore be
 XX used to obtain full length cDNAs and genomic DNAs. 5' ESTs are also used
 XX in diagnostic, forensic, gene therapy and chromosome mapping practices.
 XX They are used to obtain upstream regulatory sequences and to design
 XX expression and secretion vectors.

XX Sequence 326 bp; 80 A; 50 C; 66 G; 132 T; 1 other:

XX Query Match 2.2%; Score 24; DB 21; Length 329;
 XX Best Local Similarity 100.0%; Pred. No. 12;
 XX Matches 22; Conservative 0; Mismatches 0; Gaps 0
 XX 026 tgaactctgagatgcttcttgg 647
 XX |||||||||
 XX 144 tgaactctgagatgcttcttgg 365

RESULTS 36

XX 09-APR-1999: 99WO-1800712.
XX 09-APR-1998: 98US-0057719.
PR 28-APR-1998: 98US-0065047.
XX (GIST) GENSET.
XX Dumas Mline Edwards J, Duclert A, Giordano J:
DR WPI: 2000-038446/03.
DR P-PSDB: AAY65115.
XX Novel secreted protein 5' expressed sequence tag sequences used in
PT diagnostic, forensic, gene therapy, and chromosome mapping procedures
XX Claim 1: Page 427: 637bp: English.
XX AA42265 to AA23075 represent novel 5' expressed sequence tag (EST)
CC sequences, corresponding to human secreted proteins. AAY6511 to
CC AAY6518 represent the EST-related proteins corresponding to AA42265 to
CC AA43052. The 5' ESTs can be used for producing secreted human gene
CC products. They can be used to identify and isolate cDNA clones
CC encoding the proteins encoded by the EST sequences. They can be used
CC to study the expression, regulation, and quantity of protein synthesis, as
CC well as stability of mRNA. The ESTs are also useful as probes for
CC chromosome mapping, and to obtain full length cDNA clones. The ESTs can
CC also be used in forensic procedures to identify individuals, or in
CC diagnostic procedures to identify individuals having genetic diseases
CC resulting from abnormal gene expression. The products may also be used in
CC gene therapy protocols. The nucleic acids encoding signal peptides can be
CC used for directing extracellular secretion of a polypeptide of the
CC interest into a cell. The polypeptides encoded by the EST sequences may be useful in
CC treating a variety of human conditions. Secreted proteins have
CC therapeutic value, and the identification of new secreted proteins is
CC valuable. AA42249 to AA42264 and AAY6464 to AAY6469 represent
CC sequences used in the exemplification of the present invention.
XX
XX Sequence 329 BP: 80 A: 50 C: 66 G: 132 T: 1 other:
XX
XX Query Match 2.2% Score 22: DB 21: Length 147
XX Best Local Similarity 100.0%: Pred. No. 12:
XX Matches 22: Conservative 0: Mismatches 0: Indels 0: Gaps 0:
XX
XX 626 tgaatcgtagatgcttctgg 647
XX 144 tgaatcgtagatgcttctgg 165
XX
XX RESULT 39
XX AAC36471
XX ID AAC36471 standard: DNA: 731 BP.
XX AC AAC36471:
XX DT 17-OCT-2000 (first entry)
XX DX
XX AA Arabidopsis thaliana DNA fragment SEQ ID NO: 13931.
XX KW Hybridisation assay: genetic mapping: gene expression (cDNA):
XX KW protein identification: signal transduction pathway:
XX KW metabolic pathway: promoter: termination sequence: ss
XX OS Arabidopsis thaliana.
XX
XX EP1033405-A2.
XX
XX 06-SEP-2000.
XX
XX 25-FEB-2000: 2000EP-0301439.
XX

FR 25-FEB-1999: 99US-0121825.
FR 05-MAR-1999: 99US-0121180.
FR 05-MAR-1999: 99US-0122548.
FR 23-MAR-1999: 99US-0122788.
FR 23-MAR-1999: 99US-0122789.
FR 23-MAR-1999: 99US-0122785.
FR 01-APR-1999: 99US-0122742.
FR 06-APR-1999: 99US-0128234.
FR 08-APR-1999: 99US-0128714.
FR 16-APR-1999: 99US-0128645.
FR 15-APR-1999: 99US-0130077.
FR 21-APR-1999: 99US-0130445.
FR 23-APR-1999: 99US-0130520.
FR 25-APR-1999: 99US-0131445.
FR 30-APR-1999: 99US-0132048.
FR 30-APR-1999: 99US-0132407.
FR 04-MAY-1999: 99US-0132484.
FR 05-MAY-1999: 99US-0132485.
FR 06-MAY-1999: 99US-0132486.
FR 07-MAY-1999: 99US-0132487.
FR 11-MAY-1999: 99US-0132492.
FR 11-MAY-1999: 99US-0134218.
FR 14-MAY-1999: 99US-0134219.
FR 14-MAY-1999: 99US-0134221.
FR 14-MAY-1999: 99US-0134370.
FR 16-MAY-1999: 99US-0134768.
FR 15-MAY-1999: 99US-0134941.
FR 20-MAY-1999: 99US-0135124.
FR 21-MAY-1999: 99US-0135253.
FR 25-MAY-1999: 99US-0136021.
FR 27-MAY-1999: 99US-0136392.
FR 28-MAY-1999: 99US-0136762.
FR 01-JUN-1999: 99US-0137222.
FR 03-JUN-1999: 99US-0137528.
FR 04-JUN-1999: 99US-0137502.
FR 07-JUN-1999: 99US-0137724.
FR 08-JUN-1999: 99US-0137804.
FR 10-JUN-1999: 99US-0138540.
FR 10-JUN-1999: 99US-0138847.
FR 11-JUN-1999: 99US-0139119.
FR 16-JUN-1999: 99US-0139452.
FR 16-JUN-1999: 99US-0139453.
FR 17-JUN-1999: 99US-0139452.
FR 18-JUN-1999: 99US-0139454.
FR 18-JUN-1999: 99US-0139455.
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FR 18-JUN-1999: 99US-0139457.
FR 18-JUN-1999: 99US-0139458.
FR 18-JUN-1999: 99US-0139459.
FR 18-JUN-1999: 99US-0139460.
FR 18-JUN-1999: 99US-0139461.
FR 18-JUN-1999: 99US-0139462.
FR 18-JUN-1999: 99US-0139463.
FR 18-JUN-1999: 99US-0139750.
FR 18-JUN-1999: 99US-0139763.
FR 23-JUN-1999: 99US-0139866.
FR 23-JUN-1999: 99US-0140353.
FR 23-JUN-1999: 99US-0140354.
FR 24-JUN-1999: 99US-0140695.
FR 28-JUN-1999: 99US-0140823.
FR 29-JUN-1999: 99US-0140991.
FR 30-JUN-1999: 99US-0141287.
FR 01-JUL-1999: 99US-0141847.
FR 01-JUL-1999: 99US-0141854.
FR 05-JUL-1999: 99US-0142360.
FR 06-JUL-1999: 99US-0142803.
FR 08-JUL-1999: 99US-0142920.
FR 12-JUL-1999: 99US-0142927.

	PR	04-OCT-1995;	550S-0157117.
	PR	05-OCT-1995;	550S-0157753.
	PR	06-OCT-1995;	550S-0157865.
	PR	07-OCT-1995;	550S-0158035.
	PR	08-OCT-1995;	550S-0158232.
	PR	12-OCT-1995;	550S-0158365.
	PR	13-OCT-1995;	550S-0159293.
	PR	13-OCT-1995;	550S-0159284.
	PR	13-OCT-1995;	550S-0159285.
	PR	14-OCT-1995;	550S-0159330.
	PR	14-OCT-1995;	550S-0159331.
	PR	14-OCT-1995;	550S-0159637.
	PR	14-OCT-1995;	550S-0159584.
	PR	18-OCT-1995;	550S-0159584.
	PR	21-OCT-1995;	550S-0160741.
	PR	21-OCT-1995;	550S-0160767.
	PR	21-OCT-1995;	550S-0160768.
	PR	21-OCT-1995;	550S-0160789.
	PR	21-OCT-1995;	550S-0160814.
	PR	22-OCT-1995;	550S-0160980.
	PR	22-OCT-1995;	550S-0160981.
	PR	22-OCT-1995;	550S-0160989.
	PR	25-OCT-1995;	550S-0161404.
	PR	25-OCT-1995;	550S-0161405.
	PR	25-OCT-1995;	550S-0161406.
	PR	26-OCT-1995;	550S-0161355.
	PR	26-OCT-1995;	550S-0161360.
	PR	26-OCT-1995;	550S-0161361.
	PR	28-OCT-1995;	550S-0161362.
	PR	28-OCT-1995;	550S-0161392.
	PR	28-OCT-1995;	550S-0161393.
	PR	29-OCT-1995;	550S-0162142.
	Query Match		
	Best Local Similarity	2.8%; Score 22; DB 21; Length 731;	
	Matches	22: Conservative 100.0%; Pred. No. 11;	
		Mismatches 0; Indels 0; Gaps 0.	
DY	410	ataatatacaccatatatcac	431
		attttttttttttttttttttt	
DD	393	ataataataacccaataaac	414
RESULT	40		
AAZ22862	ID	AAZ22862 standard; cDNA; 1005 bp.	
AC	AAZ22862:		
XX	20-DEC-1995	(first entry)	
DE	Wheat indole-3-glycerol phosphate synthase partial cDNA.		
KM	Tryptophan: biosynthesis; transgenic plant; herbicide;		
XX	indole-3-glycerol phosphate synthase; ds.		
OS	Triticum aestivum.		
XX			
Key	Location	Accession/Qualifiers	
FI	1810	/accession	
FI	/1810..n	/partial	
FI	/product	"Wheat indole-3-glycerol phosphate synthase"	
XX	/note	"No initiation codon given in specification"	
PN	MOJ945013-A2.		
XX			
PD	30-SEP-1995.	55MU-US06582.	
XX			
XX	22-MAR-1995;	95IU-U072619C	
XX			

[illegible]

Claim 8; SEQ ID 16978; 2537pp + CD ROM; English.

5Q Sequence 1756 BP; 657 A; 319 C; 372 G; 448 T; 0 other;

Matches 22; Conservative 0; Mismatches

Db 762 TTAATTCAGCTTACATAATGAC 741

ID AAQ55138 standard; DNA; 8654 bp

DT 21-SEP-1995 (first entry)

Probe: *S. aureus*; *S. epidermis*; *E. faecalis*; *P. aeruginosa*; *E. coli*;
KW

PN W09401585-A.

07-JUL-1993; 93MO-JP00936.

AA
PA (FUSO) FUSO PHARM IND LTD.

PI Eda S, Matsuhisa A, Onno T, Uehara H, XY

DR - WPI; 1994-035086/04

PS Claim 4; Page 30-35; 100pp; Japanese

Sequence 5654 BP; 2568 A; 1137 C; 1362 G; 3186 T; 1 other,

Matches 22; Conservative 0;

7672 ttatttltgtactatgtag 7853

ID AATC2937 standard; DNA; 11617 BP

DT 22-OCT-2001 (first entry)

Human; neurotropic; neuroprotective

KM antihyperalgesic; antidiabetic; antidiarrheal; antifungal;
KM antihyperalgesic; antidiabetic; antidiarrheal; antifungal;
KM antihyperalgesic; antidiabetic; antidiarrheal; antifungal;
KM antihyperalgesic; antidiabetic; antidiarrheal; antifungal;

65.
KX

AA
FY
H0200155445-A1

17-TAN-2001-

04-FEB-2000; 2000US-0160628.

14-AUG-2006: 2006US-0225447.

PR 25-SEP-2000; 2000US-0234997.

08-NOV-2000; 2000US-0246477.

17-NOV-2000: 2000115-0249210

FR 17-NOV-2006; 200605-0249211.

PR	17-NOV-2000:	200005-0249271	
PR	17-NOV-2000:	200005-0249265	
PR	01-DEC-2000:	200005-0250160	
PR	01-DEC-2000:	200005-0250351	
PR	01-DEC-2000:	200005-0251060	
PR	05-DEC-2000:	200005-0251068	
PR	05-DEC-2000:	200005-0256719	
PR	06-DEC-2000:	200005-0281475	
PR	06-DEC-2000:	200005-0281475	
PR	08-DEC-2000:	200005-0291959	
PR	11-DEC-2000:	200005-0291959	
XX	(HUMA-)	HUMAN GENOME SCI 1HC.	
PA			
P	Rosen CA,	Barash SC,	Ruben SM.
XX	WPI: 2001-476235/51.		
PT	Novel plasma membrane associated proteins useful for diagnosing,		
PT	treating, preventing and/or prognosing disorders related to the		
PT	proteins, including cancer, immune response and neuronal disorders		
PS	Example 2: SEQ ID NO 265: 532pp - Sequence Listing: English.		
CC	The invention relates to novel genes (AA62752-AA62961) and proteins		
CC	(AA62752-AA62961) useful for preventing and treating or ameliorating		
CC	medical conditions e.g. by protein or gene therapy. The genes are		
CC	isolated from a range of human tissues disclosed in the specification.		
CC	The nucleic acids, proteins, antibodies and antagonists are useful		
CC	in the diagnosis, treatment and prevention of: (a) cancer, e.g. breast		
CC	and ovarian cancer, and other cancers of the adrenal gland, bone, bone		
CC	marrow, breast, gastrointestinal tract, liver, lung, or urogenital;		
CC	(b) immune disorders e.g. Addison's disease, allergies, autoimmune		
CC	disease, multiple sclerosis, rheumatoid arthritis and ulcerative		
CC	colitis; (c) infectious diseases, e.g. AIDS, hepatitis, leishmaniasis,		
CC	(d) wound healing (e.g. neurology), (e) diabetes, hypoglycaemia, stroke,		
CC	epilepsy; and (f) infectious diseases such as viral, bacterial, fungal		
CC	and parasitic infections.		
CC	Note: The sequence data for this patent did not form part of the		
CC	printed specification, but was obtained in electronic format directly		
CC	from Wipo at ftp.wipo.int/pub/publist-pat-seq.		
XX	Sequence 11617 BP: 3043 A; 2768 C; 2912 G; 2854 T; 0 other.		
XX			
XX	Query Match	2.2%	Score 42; DB 22; Length 11617.
XX	Best Local Similarity	100.0%;	Prod No. 7.7.7
XX	Matches 22;	Conservative 0;	Mismatches 0; Indels 0; Gaps 0.
OY	410 atatatatcacccatataatc 431		
DB	5191 atatatatcacccatataatc 5212		
RSRSTT 45			
AAV34455			
ID	AAV34455 standard; DNA; 11722 BP.		
XX			
AC	AAV34455:		
XX	28-SEP-1998 (first entry)		
DE			
XX	Human MHC class I chain-related gene A (MICA).		
XX	MICA: MHC class I chain-related gene A; human;		
XX	major histocompatibility complex class I related chain-related gene A;		
KM	liver cancer; stomach cancer; testicular cancer; cervical cancer;		
KM	leukemia; melanoma; head and neck cancer; esophageal cancer;		
KM	colon cancer; breast cancer; lung cancer; ovary cancer;		
KM	prostate cancer; renal cancer; graft-versus-host disease;		
KM	inflammatory bowel disease; adoptive immunotherapy; therapy;		
KM	diagnosis; ss.		

XX	CS	Hlmo	spleen.
XX	CS	Key	Location/Qualifiers
FI	FI	CDS	40..11948
FI	FI		/protein
FI	FI		/note- "contains introns"
FI	FI	exon	1..105
FI	FI		/tag- b
FI	FI	intron	number- 1
FI	FI		110..6949
FI	FI		/tag- c
FI	FI	exon	number- 1
FI	FI		6950..7204
FI	FI		/tag- d
FI	FI	intron	number- 2
FI	FI		7205..7478
FI	FI		/tag- e
FI	FI	exon	number- 2
FI	FI		7479..7766
FI	FI		/tag- f
FI	FI	intron	number- 3
FI	FI		7767..8353
FI	FI		/tag- g
FI	FI	exon	number- 3
FI	FI		8354..8632
FI	FI		/tag- h
FI	FI	intron	number- 4
FI	FI		8633..8721
FI	FI		/tag- i
FI	FI	exon	number- 4
FI	FI		8732..8805
FI	FI		/tag- j
FI	FI	intron	number- 5
FI	FI		8806..11420
FI	FI		/tag- k
FI	FI	exon	number- 5
FI	FI		11421..11722
FI	FI		/tag- l
FI	FI		number- 6
PX	PX	M05b19167-AZ.	
PX	PX	U7-MAY-1998.	
PX	PX	29-OCT-1997.	5790-0550170.
PX	PX	29-OCT-1995.	5605-0029044.
PA	PA	(HUTc-) HUTCHINSON CANCER RES CENI FELD.	
XX	XX	Splee I. Splees V:	
XX	XX	WPI: 1998-2723392/24.	
DR	DR	P-PSDB: AAN60043.	
XX	XX	Use of MHC-related antigens: MICB and MICB - as targets for the detection and treatment of cancers and for isolating specific T cell populations which can be used for immunotherapy	
XX	XX	Disclature: Page 104-111; 125bp; English.	
CC	CC	This is the human cell stress regulated MHC class I chain-related gene A (MICHA). It was obtained from single stranded (M13) and double-stranded (pUC13) templates or mapped or randomly shot-gun subcloned DNA fragments that were derived from cosmid W2A. 385 bp gene is acid treated OXy-GeneScreenII(0043) plus blunt clone size AVY14156(3).	
CC	CC	coding for closely-related MICB (see AAN60044) is also provided.	
CC	CC	MICB and MICB are specifically expressed at the lining of the gastrointestinal tract, the primary site of infectious attack, and a major target for complications arising from graft-versus-host disease (GVHD). They are also expressed at the cell surface of	

Wed May 1 07:51:14 2002

us-09-248-178-64.rng

CC colon and other cancer cells. A claimed method of detecting a
CC cancer cell involves identifying MICA or MICB in the sample. Also
CC claimed are methods of purifying, enriching and expanding V-delta 1
CC gamma-delta T (VT) cells using MICA or MICB polypeptides, a
CC method of adoptive immunotherapy using purified VT cells, a
CC method of increasing expression of MICA by providing a cell with
CC an expression construct comprising a MICA coding region under the
CC control of a promoter active in eukaryotic cells, and a transgenic
CC animal expressing MICA and/or MICB. A therapeutic agent (e.g.
CC a toxin or cytokine) conjugated to a MICA- or MICB-binding agent
CC (e.g., antibodies) can be used for the detection and treatment of
CC cancer. The invention also provides methods for the detection of
CC cancer, including testicular cancer, cervical cancer, leukemia,
CC stomach cancer, head and neck cancer, esophageal cancer, colon cancer,
CC melanoma, breast cancer, lung cancer, ovarian cancer, prostate cancer, and
CC renal cancer (all claimed). The antibody can also be used in the
CC treatment of other disorders such as GVHD and inflammatory bowel
CC disease.
XX
SQ Sequence 11722 BP: 2414 A: 2956 C: 2828 G: 3484 T: 0 other:

Query Match 2.28: Score 22: DB 19: Length 11722:
Best Local Similarity 100.0%: Pred. No. 7.7:
Matches 22: Conservative 0: Mismatches 0: Indels 0: Gaps 0:
OY 618 gatgcattgaatcgtgagatt 639
|||||
DB 3518 gatgcattgaatcgtgagatt 3519

Search completed: April 30, 2002, 11:14:24
Job time: 12133 sec

Wed May 1 07:51:20 2002

us-09-248-178-65.rni

Page 2

QY	61	ctaaatgaagctctgctgcgtgaagaaccccttcacgaattccatgagttgcagattttca	120
Db	148	ctaaatgaagctctgctgcgtgaagaaccccttcacgaattccatgagttgcagattttca	207
QY	121	cttggtcaactctaacccacgtccttaagaaggggcagttctctcaagaagcaaacagtc	180
Db	208	cttggtcaactctaacccacgtccttaagaaggggcagttctctcaagaagcaaacagtc	267
QY	181	gcgcagctcagaatttccctcaactccatttgaaagtgaaagcagctggcccccaag	240
Db	268	gcgcagctcagaatttccctcaactccatttgaaagtgaaagcagctggcccccaag	327
QY	241	ctggaggagctcagaacattctcgaattcccaattctctctggcagtgaaagaaatttt	300
Db	328	ctggaggagctcagaacattctcgaattcccaattctctctggcagtgaaagaaatttt	387
QY	301	ctgcctcactactagaattcc	319
Db	388	ctgcctcactactagaattcc	406

RESULT 2
 US-07-946-497-1
 Sequence 1, Application US/07946497
 Patent No. 5506119
 GENERAL INFORMATION:
 INVENTOR: WERNER, Ulrich, Peter
 APPLICANT: HONTela, Inc.
 APPLICANT: MATEZKU, Siegfried
 APPLICANT: WENZL, Achim
 TITLE OF INVENTION: VARIANT C04 SURFACE PROTEINS, DNA
 TITLE OF INVENTION: SEQUENCES CODING THESE ANTIBODIES AGAINST THESE PROTEINS
 TITLE OF INVENTION: AS WELL AS THEIR USE IN DIAGNOSIS AND THERAPY
 CLASSIFICATION: B
 ADDRESS: Polaris
 STREET: 3000 K Street, N.W., Suite 500
 CITY: Washington, D.C.
 COUNTRY: USA
 ZIP: 20007-5109
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC DOS/MS DOS
 SOFTWARE: Release #1.0, Version #1.25
 CURRENT APPLICATION DATE:
 APPLICATION NUMBER: US/07/946,497
 FILING DATE: 19921109
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: BENT, Stephen A.
 REGISTRATION/DOCKET NUMBER: 29,768
 REFERENCE/DOCKET NUMBER: 16915/145
 TELEPHONE: (202) 975-5300
 TELEFAX: (202) 672-5399
 TELE: 904136
 INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 3207 base pairs
 TYPE: NUCLEIC ACID
 STRANDEDNESS: double
 TOPOLOGY: linear
 IMMEDIATE SOURCE:
 CLONE: p-Wels-1
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 113..1624

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Query Match: 4.0% Score 23; E6 1; Length 3207;
Best Local Similarity 100.0% Pctd. No. 0.21;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 553 Caaaaaggaagaaagaaagaaagaa 575
E6 3157 Caaaaagaaagaaagaaagaaagaa 3175

```

[illegible]

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us-09-248-178-65.rml

Page 3

```

US-08-478-882-1
Sequence 1, Application US/08478e63
Patent No. 5885575
GENERAL INFORMATION:
APPLICANT: HERZLICH, Peter
INVENTOR: HERZLICH, Peter
APPLICANT: COHENBERT, Ursula
APPLICANT: MATZKU, Siegfried
APPLICANT: MENZL, Achim
TITLE OF INVENTION: VARIANT CD14 SURFACE PROTEINS, DNA
TITLE OF INVENTION: SEQUENCES CODING THESE ANTIBODIES AGAINST THESE PROTEINS,
TITLE OF INVENTION: AS WELL AS THEIR USE IN DIAGNOSIS AND THERAPY
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESS: Koly & Landner
Street 300, Glatfeld, N.W., Suite 500
City: Washington, D.C.
COUNTRY: USA
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/Ms-DOS
SOFTWARE: Patent In-Releases #1.0, Version #1.25
CURRENT INVENTION DATA
APPLICATION NUMBER: US/08/478.882
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/446.197
FILING DATE: 19921109
ATTORNEY/AGENT INFORMATION:
NAME: BENT, Stephen A.
REGISTRATION NUMBER: 29,765
RESIDENCE STREET INTERSECTION: 5315/145
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202)672-5300
TELEFAX: (202)672-5399
TELEX: 904136
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 3207 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
SYNOLOG SOURCE: near
IMMEDIATE SOURCE:
CLONE: pWcld.1
FEATURE:
NAME/KEY: CDS
LOCATION: 113..1624
US-08-478-882-1

Query Match          4.0% Score 23: DB 2: Length 3207:
Best Local Similarity 100.0% Pval. No. 0.21:
Matches   23: Conservative    0: Mismatches      0: Indels      0: Gaps      0:

YY  553 caaaagagaaaaaataaaaataaa 575
    ||||||
Db   3157 CAAAAGCAAAAAAAAAAAAAAA 3179

RESULT 5
US-08-520-678A-22/c
Sequence 22, Application US/08520678A
PATENT NO. 5885575
GENERAL INFORMATION:
APPLICANT: KOLYKHAYLOV, Alexander A.
APPLICANT: RICE, Charles M.
TITLE OF INVENTION: NOVEL 3' TERMINAL SEQUENCE OF HEPATITIS
TITLE OF INVENTION: C VIRUS GENOME AND DIAGNOSTIC AND THERAPEUTIC USES THEREOF
NUMBER OF SEQUENCES: 39
CORRESPONDENCE ADDRESS:
```

```

ADDRESS: McNeill & Haterkamp, L.L.C.  

STREET: 7793 Forsyth Blvd., Suite 1400  

CITY: St. Louis  

STATE: MO  

COUNTRY: USA  

ZIP: 63105  

COMPUTER READABLE FORM:  

MEDIUM TYPE: floppy disk  

COMPUTER: IBM PC compatible  

OPERATING SYSTEM: PC-DOS/MS-DOS  

SOFTWARE: Patent Release #1.0, Version #1.30  

CURRENT APPLICATION DATA:  

APPLICATION NUMBER: US/08/520,678A  

CLASSIFICATION: 516  

ATTORNEY/AGENT INFORMATION:  

NAME: Henderson, Melodie M.  

REGISTRATION NUMBER: 37,848  

REFERENCE/POCKET NUMBER: 6049-6836  

TELECOMMUNICATION INFORMATION:  

TELEPHONE: 314-727-5188  

TELEFAX: 314-727-6092  

INFORMATION FOR SEQ. ID NO.: 22:  

SEQUENCE CHARACTERISTICS:  

LENGTH: 356 base pairs  

TYPE: nucleic acid  

STRANDEDNESS: single  

TOPOLOGY: linear  

MOLECULE TYPE: DNA (genomic)  

US-08-520-678A-22  

Query Match 3.6%, Score 22, B6 2, Length 356,  

Best Local Similarity 100.0%, Freq No. 0.66,  

Matches 22, Conservative 0, Mismatches 0, Indels 0, Gaps 0,  

C7 554 aaaaaggaataaaaaa 575  

|||||  

LB 203 AAAAAAGAAAAA 162  

RESULT 6  

US-08-5697116-22/C  

SEQUENCE 22: Application US/08697126  

PATENT No. 6297003  

GENERAL INFORMATION:  

APPLICANT: Rice, Charles M.  

APPLICANT: Kolykhalov, Alexander A.  

TITLE OF INVENTION: NOVEL 3' TERMINAL SEQUENCE OF HEPATITIS  

TITLE OF INVENTION: C VIRUS GENOME AND DIAGNOSTIC AND THERAPEUTIC USES THEREOF  

NUMBER OF SEQUENCES: 39  

CORRESPONDENCE ADDRESS:  

ADDRESSEE: McNeill & Haterkamp, L.L.C.  

STREET: 7793 Forsyth Blvd., Suite 1400  

CITY: St. Louis  

STATE: MO  

COUNTRY: USA  

ZIP: 63105  

COMPUTER READABLE FORM:  

MEDIUM TYPE: floppy disk  

COMPUTER: IBM PC compatible  

OPERATING SYSTEM: PC-DOS/MS-DOS  

SOFTWARE: Patent Release #1.0, Version #1.30  

CURRENT APPLICATION DATA:  

APPLICATION NUMBER: US/08/567,126  

CLASSIFICATION:  

PRIOR APPLICATION DATA:  

FILING DATE:  

APPLICATION NUMBER: 08/520,678  

ATTORNEY/AGENT INFORMATION:  

NAME: Henderson, Melodie M.

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REGISTRATION NUMBER: 37,848
REFERENCE/DOCKET NUMBER: 6039-6836
TELEPHONE: 314-727-5188
TELEFAX: 314-727-6092
TELEX:
INFORMATION FOR SEQ ID NO: 22:
SEQUENCE CHARACTERISTICS:
LENGTH: 356 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MODIFICATIONS: DNA (genomic)
US-08-897-126-22

Query Match 3.8% Score 22: DB 4: Length 356:
Best Local Similarity 100.0% Pred. No. 0.66:
Matches 22: Conservative 0: Mismatches 0: Indels 0: Gaps 0:

OY 554 aaaaagaaaaa 575
DB 203 AAAAAAAAAAAAAAAAAA 182

RESULT 7
US-08-203-905B-13
Sequence 13, Application US/08203905B
Patent No. 5616249
GENERAL INFORMATION:
APPLICANT: KATZ, FREDERIC J.
INVENTOR: KATZ, FREDERIC J.
TITLE OF INVENTION: ISOLATION AND CHARACTERIZATION OF A
NOVEL CHAPERONE PROTEIN
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
ADDRESSEE: KNOBBE, MARTENS, OLSON & BEAR
STREET: 620 NEWPORT CENTER DRIVE, SIXTEENTH FLOOR
CITY: NEWPORT BEACH
STATE: CA
COUNTRY: USA
ZIP: 92660
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.23
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/203,905B
FILING DATE: February 28, 1994
CLASSIFICATION:
ATMORNEY/AGENT INFORMATION:
NAME: KIRKPATRICK, ANITA M.
REGISTRATION NUMBER: 32,617
REFERENCE/DOCKET NUMBER: N18039, 001A
TELEPHONE: 619-235-8550
TELEFAX: 619-235-0176
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 173 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
FEATURE: CDS
NAME/KEY: 1..1730
LOCATION: 1..1730
US-08-203-905B-13

Query Match 3.8% Score 22: DB 1: Length 1731:
Best Local Similarity 100.0% Pred. No. 0.59:
Matches 22: Conservative 0: Mismatches 0: Indels 0: Gaps 0:

OY 554 aaaaagaaaaa 575
DB 1606 AAAAAAAAAAAAAAAAAA 1627

RESULT 8
US-07-664-475A-4
Sequence 4, Application US/07664475A
Patent No. 5494806
GENERAL INFORMATION:
APPLICANT: Segre, Gino V.
INVENTOR: Segre, Gino V.
APPLICANT: Juppner, Harald
APPLICANT: Alou-Saura, Abdul-Badi
APPLICANT: Polls, John T. [Jr.]
APPLICANT: Schipani, Ernestino
TITLE OF INVENTION: PARATHYROID HORMONE RECEPTOR
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
ADDRESSEE: Smith, Charles
STREET: 25 Franklin Street
CITY: Boston
STATE: Massachusetts
COUNTRY: U.S.A.
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 MB
OPERATING SYSTEM: MS-DOS 5.0
SOFTWARE: MS-DOS 5.0 (Version 5.1)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/664,475A
FILING DATE: 04-06-1992
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/681,702
FILING DATE: 05-04-1991
ATTORNEY/AGENT INFORMATION:
NAME: PAUL T. CLARK
REGISTRATION NUMBER: 30,162
REFERENCE/DOCKET NUMBER: 00766/071002
TELEPHONE: (617) 542-5070
TELEFAX: (617) 542-8506
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 2010
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
US-07-664-475A-4

Query Match 3.8% Score 22: DB 1: Length 2010:
Best Local Similarity 100.0% Pred. No. 0.36:
Matches 22: Conservative 0: Mismatches 0: Indels 0: Gaps 0:

OY 554 aaaaagaaaaa 575
DB 1541 AAAAAAAAAAAAAAAAAA 1562

RESULT 9
US-08-468-249A-4
Sequence 4, Application US/08468249A
Patent No. 5681440
GENERAL INFORMATION:

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APPLICANT: Segre et al., Gino V.
TITLE OF INVENTION: PARATHYROID HORMONE RECEPTOR AND LNA
TYPE OF INVENTION: ENCODING SAME
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson P.C.
STREET: 325 Franklin Street
CITY: Boston
STATE: MA
COUNTRY: USA
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION NUMBER: US/08/468,249A
APPLICATION NUMBER: US/08/468,249A
FILING DATE: 06-JUN-1995
CLASSIFICATION: 530
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 07/864,475
FILING DATE: 06-APR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/681,702
FILING DATE: 04-MAY-1991
ATTORNEY/AGENT INFORMATION:
NAME: Fish & Richardson P.C.
REGISTRATION NUMBER: K 14,819
REFERENCE/DOCKET NUMBER: 00786/071003
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617/542-8506
TELEFAX: 617/542-8506
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 2010 base pairs
TYPE: nucleic acid
STRANDNESS: single
TOPOLOGY: linear
FEATURE:
NAME/KEY: CDS
LOCATION: 26...1807
US-08-468-249A-4

Query Match 3.8% Score 22; DB 2; Length 2010;
Best Local Similarity 100.0%; Pred. No. 0.58;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OR 554 aaaaaggaagaaaaa 575
DB 1941 AAAAGCAAAAAAAAAAAAAA 1962

RESULT 10
US-09-136-605-14/C
Sequence 14, Application US/0913605A
Patent No. 6140052
ORIGINATOR INFORMATION:
ORIGINATOR: Kinzler, Kenneth
APPLICANT: Kinzler, Kenneth
TITLE OF INVENTION: Prevent Cancer
FILE REFERENCE: 1107.75741
CURRENT APPLICATION NUMBER: US/09/136,605A
EARLIER FILING DATE: 1998-08-20
EARLIER APPLICATION NUMBER: 08/821,355
FILING DATE: 1997-03-20
EARLIER APPLICATION NUMBER: 08/003,687
FILING DATE: 1996-01-06
NUMBER OF SEQ ID NOS: 28
SOFTWARE: FASTSD for Windows Version 3.0

SEQ ID NO 14
LENGTH: 8056
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: LATA-signal
LOCATION: (2456)...(2862)
US-09-136-605-14

Query Match 3.8% Score 22; DB 3; Length 8056;
Best Local Similarity 100.0%; Pred. No. 0.53;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OR 554 aaaaaggaagaaaaa 575
DB 1240 AAAAGCAAAAAAAAAAAAAA 6195

RESULT 11
US-08-106-691B-41/C
Sequence 41, Application US/08106691B
Patent No. 5734035
GENERAL INFORMATION:
APPLICANT: Calabretta, Bruno
TITLE OF INVENTION: ANTISENSE
SEQUENCE CHARACTERISTICS:
LENGTH: 3,50 inch, 720 KIL
MEDIUM TYPE: Diskette, 3.50 inch, 720 KIL
COMPUTER: IBM PS/2
OPERATING SYSTEM: MS-DOS
SOFTWARE: Noted, Sect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/106,691B
FILING DATE: September 15, 1994
CLASSIFICATION: 514
PRIORITY APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Monaco, Daniel A.
REGISTRATION NUMBER: 30,480
REFERENCE/DOCKET NUMBER: 821-8
TELEPHONE: (215) 568-8383
TELEFAX: (215) 568-5545
TELEX: NO. 5734035E
INFORMATION FOR SEQ ID NO: 41:
SEQUENCE CHARACTERISTICS:
LENGTH: 8082 base pairs
TYPE: nucleic acid
STRANDNESS: double
TOPOLOGY: linear
US-08-106-691B-41

Query Match 3.8% Score 22; DB 1; Length 8082;
Best Local Similarity 100.0%; Pred. No. 0.53;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OR 554 aaaaaggaagaaaaa 575
DB 1240 AAAAGCAAAAAAAAAAAAAA 6225

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TELEFAX: 201-343-1684
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 9646 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-811-566-1

Query Match 3.8% Score 22: DB 3: Length 9646:
Best Local Similarity 100.0%: Pred. No. 0.52:
Matches 22: Conservative 0: Mismatches 0: Indels 0: Gaps 0:

CY 554 aaaaagaaaaa 575
DB 9493 AAAAGGAAAAA 9472

RESULT 15
US-08-811-566-5/c
Sequence 5: Application US/08811566
Patent No. 6127116
GENERAL INFORMATION:
APPLICANT: Rice, Charles et al.
TITLE OF INVENTION: FUNCTIONAL DNA CLONE FOR HEPATITIS C
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSEE: David A. Jackson, Esq.
STREET: 11 Hackensack Ave., Continental Plaza, 4th
CITY: Hackensack
STATE: New Jersey
COUNTRY: USA
ZIP: 07601
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: FASTA/FASTX release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/811.566
FILING DATE: 03-MAR-1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Jackson Esq., David A.
REGISTRATION NUMBER: 26,742
REFERENCE/DOCKET NUMBER: 1113-1-006
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-487-9200
TELEFAX: 201-413-1638
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 12980 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-811-566-5

Query Match 3.8% Score 22: DB 3: Length 12980:
Best Local Similarity 100.0%: Pred. No. 0.51:
Matches 22: Conservative 0: Mismatches 0: Indels 0: Gaps 0:
CY 554 aaaaagaaaaa 575
|||||

DB 9495 AAAAGGAAAAA 9474

RESULT 16
US-08-153-051b-27
Sequence 27: Application US/08153051b
Patent No. 5645566
GENERAL INFORMATION:
APPLICANT: Michael D. West
APPLICANT: Jerry W. Shay
APPLICANT: Woodring E. Wright
APPLICANT: Elizabeth Blackburn
APPLICANT: Richard Kohn
APPLICANT: Calvin B. Harley
APPLICANT: Scott L. Weisrich
APPLICANT: Catherine Strahl
APPLICANT: Michael J. McEachern
TITLE OF INVENTION: THERAPY AND DIAGNOSIS OF
TITLE OF INVENTION: CONDITIONS RELATED TO TELOMERE
NUMBER OF SEQUENCES: 58
CORRESPONDENCE ADDRESS:
ADDRESSEE: NOA 4130
STREET: 633 West Fifth Street
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" diskette, 1.44 MB
MEDIUM TYPE: storage device
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: FASTA/FASTX version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/153.051b
FILING DATE: NO. 5645566/letter 12, 1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/038,766
FILING DATE: March 24, 1993
ATTORNEY/AGENT INFORMATION:
NAME: MICHAEL D. WEST
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 204/195
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 555-0440
INFORMATION FOR SEQ ID NO: 27:
SEQUENCE CHARACTERISTICS:
LENGTH: 1501c acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-153-051b-27

Query Match 3.7% Score 21: DB 1: Length 157:
Best Local Similarity 100.0%: Pred. No. 1.9:
Matches 21: Conservative 0: Mismatches 0: Indels 0: Gaps 0:
CY 555 aaaaagaaaaa 575
DB 126 AAAAGGAAAAA 146

RESULT 17
US-08-060-552C-43
Sequence 43: Application US/0806052C
Patent No. 5695932
GENERAL INFORMATION:

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APPLICANT: Michael D. West
APPLICANT: Jerry M. Shay
APPLICANT: Woodring E. Wright
APPLICANT: Elizabeth Blackburn
TITLE OF INVENTION: THERAPY AND DIAGNOSIS OF CONDITIONS
RELATED TO TELLERASE LENGTH AND/OR
TITLE OF INVENTION: TELLERASE ACTIVITY
NUMBER OF SEQUENCES: 57
CORRESPONDENCE ADDRESS:
ADDRESS: Lyon & Lyon
STREET: 633 West Fifth Street
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071-1006
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 MB
MEDIUM TYPE: Storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
FILING DATE: May 13, 1993
APPLICATION NUMBER: US/08/060,952C
PRIORITY APPLICATION DATA:
PRIORITY APPLICATION NO.: 514
FILING DATE: May 13, 1992
APPLICATION NUMBER: 08/038,766
FILING DATE: March 24, 1993
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
TELEPHONE/DOCKET NUMBER: 202/045
TELEPHONE: (213) 483-1600
TELEFAX: (213) 555-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 43:
SEQUENCE CHARACTERISTICS:
LENGTH: 157
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-060-952C-43

Query Match 3.7% Score 21: DB 1: Length 157:
Best Local Similarity 100.0%: Prod No. 1 %:
Matches 21: Conservative 0: Mismatches 0: Indels 0: Gaps 0:

DB 555 aaaaagaaataaaaaaa 575
128 AAAAGGAAAAAAAAAAAAA 148

RESULT 18
US-08-151-477A-27
Sequence 27: Application US/08151477A
Patent No. 5810644
GENERAL INFORMATION:
APPLICANT: Michael D. West
APPLICANT: Jerry M. Shay
APPLICANT: Woodring E. Wright
APPLICANT: Elizabeth Blackburn
APPLICANT: Nam Woo Kim
APPLICANT: Calvin B. Harley
APPLICANT: Scott L. Weinrich
APPLICANT: Michael J. McEachern
APPLICANT: Homayoun Vaziri
APPLICANT: Michael J. McEachern
TITLE OF INVENTION: THERAPY AND DIAGNOSIS OF

TITLE OF INVENTION: CONDITIONS RELATED TO TELLERASE
TITLE OF INVENTION: LENGTH AND/OR TELLERASE ACTIVITY
NUMBER OF SEQUENCES: 58
CORRESPONDENCE ADDRESS:
ADDRESS: Lyon & Lyon
STREET: 633 West Fifth Street
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071-1006
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 MB
MEDIUM TYPE: Storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: FASTED Version 1.5
FILING DATE: May 13, 1993
APPLICATION NUMBER: US/08/060,952C
PRIORITY APPLICATION DATA:
PRIORITY APPLICATION NO.: 514
FILING DATE: March 24, 1993
APPLICATION NUMBER: 08/038,766
FILING DATE: May 13, 1992
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
TELEPHONE/DOCKET NUMBER: 202/185
TELEPHONE: (213) 483-1600
TELEFAX: (213) 555-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 27:
SEQUENCE CHARACTERISTICS:
LENGTH: 157
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-151-477A-27

Query Match 3.7% Score 21: DB 4: Length 157:
Best Local Similarity 100.0%: Prod No. 1 %:
Matches 21: Conservative 0: Mismatches 0: Indels 0: Gaps 0:

DB 555 aaaaagaaataaaaaaa 575
128 AAAAGGAAAAAAAAAAAAA 148

RESULT 15
US-08-616-847-47
Sequence 57: Application US/08061847
Patent No. 6007685
GENERAL INFORMATION:
APPLICANT: Michael D. West
APPLICANT: Calvin B. Harley
APPLICANT: Scott L. Weinrich
APPLICANT: Catherine M. Strahl
APPLICANT: Michael J. McEachern
APPLICANT: Jerry Shay
APPLICANT: Woodring E. Wright
APPLICANT: Elizabeth Blackburn
APPLICANT: Homayoun Vaziri
APPLICANT: Michael J. McEachern
TITLE OF INVENTION: THERAPY AND DIAGNOSIS OF
TITLE OF INVENTION: CONDITIONS RELATED TO
TITLE OF INVENTION: TELLERASE LENGTH AND/OR
TITLE OF INVENTION: TELLERASE ACTIVITY
NUMBER OF SEQUENCES: 60
CORRESPONDENCE ADDRESS:
ADDRESS: Lyon & Lyon
STREET: 633 West Fifth Street
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071-1006

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CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071-2066
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: IBM Storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: FASTSEQ for Windows 2.0
CURRENT APPLICATION DATA:
FILING DATE: 08/15/1997
FILING DATE: 08/14, 1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/153,051
FILING DATE: No. 600798September 12, 1993
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Chemoets, Daniel M.
REGISTRATION NUMBER: 31,551
RESIDENCE: 524/222
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 57:
SEQUENCE CHARACTERISTICS:
LENGTH: 158 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-819-867-57

Query Match 3.7%: Score 21; DB 3; Length 158;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 555 aaaaagaaataaaaaaaa 575
DB 128 AAAAAAAGAAAAAAGAAAAA 148

RESULT 20
US-09-040-984-82
Sequence 82, Application US/0904984
Patent No. 6210883
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS
TITLE OF INVENTION: OXIDANT CANCER
NUMBER OF SEQUENCES: 86
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: WA
COUNTRY: USA
ZIP: 98104
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/040,984
FILING DATE: 18-MAR-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: MAKI, David J.

REGISTRATION NUMBER: 31,554
REFERENCE/LOCKET NUMBER: 210121,456
TELECOMMUNICATION INFORMATION:
TELEPHONE: 206-622-4400
TELEFAX: 206-282-6031
TELEX:
INFORMATION FOR SEQ ID NO: 82:
SEQUENCE CHARACTERISTICS:
LENGTH: 217 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-040-984-82

Query Match 3.7%: Score 21; DB 4; Length 217;
Best Local Similarity 100.0%; Pred. No. 1.8;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 555 aaaaagaaataaaaaaaa 575
DB 150 AAAAAAAGAAAAAAGAAAAA 210

RESULT 21
US-08-916-576B-3
Sequence 3, Application US/0816576B
Patent No. 6171816
GENERAL INFORMATION:
APPLICANT: YU, GUO-LIANG
TITLE OF INVENTION: NOVEL HUMAN GROWTH FACTORS
TITLE OF INVENTION: NOVEL HUMAN GROWTH FACTORS
NUMBER OF SEQUENCES: 45
CORRESPONDENCE ADDRESS:
ADDRESSEE: STERN, KESSLER, GOLUSTEIN & FOX, P.L.L.C.
STREET: 1100 NEW YORK AVENUE, SUITE 600
CITY: WASHINGTON
STATE: DC
COUNTRY: US
ZIP: 20005-3934
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/916,576B
FILING DATE:
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/024,347
FILING DATE: 23-JUN-1996
ATTORNEY/AGENT INFORMATION:
NAME: STEFF, ERIC K.
REGISTRATION NUMBER: 36,688
REFERENCE/LOCKET NUMBER: 1486,0500061
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 371-2540
TELEFAX: (202) 371-2540
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 143 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 88..603
FEATURE:
NAME/KEY: mat_peptide

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LOCATION: 157.603
FEATURE: 519 peptide
SEQUENCE: 86.156
LOCATION: 86.156
US-08-916-5768-3

Query Match 3.7%; Score 21; DB 4; Length 1423;
Best Local Similarity 100.0%; Pred. No. 1.6;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 555 aaaggaagaaagaaagaaagaa 575
DD 1400 AAGAGAGAGAGAGAGAGAGAG 1420

RESULT 22
US-09-056-105-23
Sequence 23; Application US/09056105
Patent No. 6287569
GENERAL INFORMATION:
APPLICANT: KIPPEY, THOMAS J.
INVENTOR: KIPPEY, THOMAS J.
TITLE OF INVENTION: PROCESSING
FILE REFERENCE: 231/221
CURRENT APPLICATION NUMBER: US/09/056.105
CURRENT FILING DATE: 1998-04-06
EARLIER APPLICATION NUMBER: 60/043.467
EARLIER FILING DATE: 1997-04-10
NUMBER OF SEQ ID NOS: 35
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO: 1821
LENGTH: 1821
TYPE: DNA
ORGANISM: Homo sapiens
US-09-056-105-23

Query Match 3.7%; Score 21; DB 4; Length 1821;
Best Local Similarity 100.0%; Pred. No. 1.6;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 555 aaaggaagaaagaaagaaagaa 575
DD 912 aaaggaagaaagaaagaaagaa 952

RESULT 23
US-08-437-027-18
Sequence 18; Application US/08437027
Patent No. 5670317
GENERAL INFORMATION:
APPLICANT: GORDON, David L. Marc
INVENTOR: GORDON, David L. Marc
TITLE OF INVENTION: A DIAGNOSTIC TEST FOR TEST FOR THE DESMOPLASTIC
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSEE: Cooper & Dunham LLP
STREET: 1185 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10016
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/437.027
FILING DATE:

CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: WHITE, JOHN P.
FIRM: WHITE, JOHN P.
REFERENCE/DOCKET NUMBER: 46416/JH/CCH
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-276-0400
TELEFAX: 212-391-0525
INFORMATION FOR SEQ ID NO: 18:
SEQUENCE CHARACTERISTICS:
LENGTH: 2412 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLCUT TYPE: CDNA to mRNA
US-08-437-027-18

Query Match 3.7%; Score 21; DB 1; Length 2412;
Best Local Similarity 100.0%; Pred. No. 1.6;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 555 aaaggaagaaagaaagaaagaa 575
LD 2391 AAGAGAGAGAGAGAGAGAGAG 2411

RESULT 24
US-08-851-845-1
Sequence 1; Application US/08851845
Patent No. 6056873
GENERAL INFORMATION:
APPLICANT: Schaefer, Gabriele M.
INVENTOR: Schaefer, Gabriele M.
TITLE OF INVENTION: Gamma-Heraguila
NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genentech, Inc.
STREET: 460 Point San Bruno Blvd
CITY: South San Francisco
STATE: California
COUNTRY: USA
ZIP: 94060
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Minipain (Genentech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/851.845
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/021640
FILING DATE: 1997/02/26
TITLE OF INVENTION:
NAME: Lee, Wendy M.
REGISTRATION NUMBER: 40.378
REFERENCE/DOCKET NUMBER: P1043
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415/225-1994
TELEFAX: 415/952-9881
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 2412 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-851-845-1

Query Match 3.7%; Score 21; DB 3; Length 3111;

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```

QY      555 aaatggaataaaataaaaaa 575
        |||||
BB      3091 aatttcttttttttttttttttt 3111

```

Best Local Similarity 100.0%; Pred. NO. 1.5;
Matches 21; Conservative 0; Mismatches 0; Indels 0;
Gaps 0;

RESULT 25
US-08-619-542B-30
; sequence 30, Application US/08619542B

1 GENERAL INFORMATION: 2
3 APPLICANT: The Trustees of Columbia University in the City 4
5 APPLICANT: of New York 6
7 TITLE OF INVENTION: METHOD FOR CONSTRUCTION OF NORMALIZED 8
9 TITLE OF INVENTION: CDNA LIBRARIES 10
11 NUMBER OF SEQUENCES: 76 12
13 CORRESPONDENCE ADDRESS: 14
15 STREET: Dunham LLP 16
17 STREET: 1185 Avenue of the Americas 18
19 CITY: New York 20
21 STATE: New York 22
23 COUNTRY: USA 24
25 ZIP: 10036 26

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC DOS/MS-DOS
SOFTWARE: Patencia Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/06,615,542B
FILING DATE: June 21, 1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: White, John P.
REGISTRATION NUMBER: 28,678
REFERENCE/DOCKET NUMBER: 42840-A-PCT-US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 278-0100
TELEFAX: (212) 391-0525

```

: INFORMATION FOR SEQ ID NO: 30:
: SEQUENCE CHARACTERISTICS:
:   LENGTH: 339 base pairs
:   type: nucleic acid
:   STRANDEDNESS: single
:   TOPOLOGY: linear
:   MOLECULE TYPE: other nucleic acid
US-08-619-542B-30

```

Query Match	3.5%	Score 20	Dn 2	Length 335
Best Local Similarity	100.0%	Pct. No. 4	B	
Matches 20	Conservative 0	Mismatches 0	Indels 0	Gaps 0
Qy	556	aaaggaataaataaataa	575	
	317	aaacgaataaataaataa	396	

[illegible]

```

1 APPLICANT: Dertli, Arman
2 APPLICANT: Ford, Donna M.
3 APPLICANT: Lewis, Jerica E.
4 APPLICANT: Monahan, John E.
5 APPLICANT: Schlegel, Robert
6 TITLE OF INVENTION: POLYMERIZING
7 POLYMERIZING MONOMER GENES AND GENE EXPRESSION
8 FILE REFERENCE: CDD-2570 US
9 CURRENT APPLICATION NUMBER: US/99/326,111
10 EARLIER FILING DATE: 1999-06-05
11 EARLIER APPLICATION NUMBER: US 60/066,401
12 EARLIER FILING DATE: 1998-04-10
13 NUMBER OF SEQ ID NOS: 850
14 SOFTWARE: FASTSEQ for Windows Version 3.0
15 SEQ ID NO 25
16 LENGTH: 413
17 TYPE: DNA
18 ORGANISM: Homo sapiens
19 03-05-378-111-25

```

```

Query Match      3.58; Score 20; DB 4; Length 413;
Best local Similarity 100.0%; Pred. No. 4, 6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

RESULT 27
US-08-0367-5558-1133
Sequence 113, Application US/06036558B
PARENT: US-0558-1133
GENERAL INFORMATION:
APPLICANT: Goodheart, Andrew; Strockman, Paul;
Finn, Michael
APPLICANT: Monohell, Luisa; Waterfield, Michael;
Matchoni, Mark
APPLICANT: Chen, Miao Su; Hiles, Ian
TITLE OF INVENTION: G141 Mitogenic Factors, Their
Use in the Preparation of Vaccines
NUMBER OF SEQUENCES: 184
CORRESPONDENCE ADDRESS:
Dr. Ian Hiles, 1000
STREET 605 Third Avenue
CITY: New York City
STATE: New York
COUNTRY: USA
ZIP: 10022
COMPUTER READABLE FORM:
MEDIA TYPE: Diskette, 5.25 inch, 360 kb storage
NUMBER OF DISKETS: 1
OPERATING SYSTEM: PC-DOS
SOFTWARE: Wordperfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/036,558B
FILING DATE: 24-MAR-1993
CLASSIFICATION: 435
PRIOR APPLICATION DATA: 07/945,113
FILING DATE: 23-OCT-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/940,389
FILING DATE: 03-SEP-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/907,136
FILING DATE: 30-JUN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/863,703
FILING DATE: 03-APRIL-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: U.K. 91 07566.3
FILING DATE: 10-APRIL-1991
ATTORNEY/AGENT INFORMATION:

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NAME: Tsai, Christine H.
REGISTRATION NUMBER: 34,266
REFERENCE/DOCKET NUMBER: LUD 5250.4
TELEPHONE: (212) 688-9200
TELEFAX: (212) 688-9884
INFORMATION FOR SEQ ID NO: 133:
SEQUENCE CHARACTERISTICS:
LENGTH: 744
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-016-559-133

Query Match 3.5% Score 20: DB 1: Length 744:
Best Local Similarity 100.0%: Pred. No. 4.6:
Matches 20: Conservative 0: Mismatches 0: Indels 0: Gaps 0:

QY 556 aaagaaagaaagaaagaaagaa 575
DD 675 AAAGGAAAAAAGAAAAAAGAA 694

RESULT 28
US-08-469-569-133
Sequence 133, Application US/08469569
Patent No. 5606012
GENERAL INFORMATION:
APPLICANT: Goodheart, Andrew; Strobot, Paul;
APPLICANT: Minghetti, Luisa; Waterfield, Michael; Marchionni, Mark;
APPLICANT: Chen, Miao Su; Hiles, Ian
TITLE OF INVENTION: Glial Mitogenic Factors, Their
NUMBER OF SEQUENCES: 184
CORRESPONDENCE ADDRESS:
ADDRESSEE: Felte & Lynch
STREET: 805 Third Avenue
CITY: New York City
STATE: New York
COUNTRY: USA
ZIP: 10022
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
COMPUTER: IBM
OPERATING SYSTEM: PC-DOS
SOFTWARE: WordPerfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/469,569
FILING DATE: 06-JUN-1995
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/036,555
FILING DATE: 23-OCT-1992
APPLICATION NUMBER: 07/965,173
FILING DATE: 23-OCT-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/940,389
FILING DATE: 03-SEP-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/907,138
FILING DATE: 30-JUN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/863,703
FILING DATE: 03-APRIL-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: U.K. 91 07566.3
FILING DATE: 10-APRIL-1991
ATTORNEY/AGENT INFORMATION:
NAME: Tsai, Christine H.
REGISTRATION NUMBER: 34,266
REFERENCE/DOCKET NUMBER: LUD 5250.4
TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 688-9200
TELEFAX: (212) 688-9884
INFORMATION FOR SEQ ID NO: 133:
SEQUENCE CHARACTERISTICS:
LENGTH: 744
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-469-569-133

Query Match 3.5% Score 20: DB 1: Length 744:
Best Local Similarity 100.0%: Pred. No. 4.6:
Matches 20: Conservative 0: Mismatches 0: Indels 0: Gaps 0:

QY 556 aaagaaagaaagaaagaaagaa 575
DD 675 AAAGGAAAAAAGAAAAAAGAA 694

RESULT 29
US-08-249-322A-133
Sequence 133, Application US/08249322A
Patent No. 5718500
GENERAL INFORMATION:
APPLICANT: Goodheart, Andrew; Strobot, Paul;
APPLICANT: Minghetti, Luisa; Waterfield, Michael; Marchionni, Mark;
APPLICANT: Chen, Miao Su; Hiles, Ian
TITLE OF INVENTION: Glial Mitogenic Factors, Their
NUMBER OF SEQUENCES: 184
CORRESPONDENCE ADDRESS:
ADDRESSEE: Felte & Lynch
STREET: 805 Third Avenue
CITY: New York City
STATE: New York
COUNTRY: USA
ZIP: 10022
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
COMPUTER: IBM
OPERATING SYSTEM: PC-DOS
SOFTWARE: WordPerfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/249,322A
FILING DATE: 26-MAY-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/036,555
FILING DATE: 24-MAR-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/965,173
FILING DATE: 23-OCT-1992
APPLICATION NUMBER: 07/940,389
FILING DATE: 03-SEP-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/907,138
FILING DATE: 30-JUN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/863,703
FILING DATE: 03-APRIL-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: U.K. 91 07566.3
FILING DATE: 10-APRIL-1991
ATTORNEY/AGENT INFORMATION:
NAME: Tsai, Christine H.
REGISTRATION NUMBER: 34,266
REFERENCE/DOCKET NUMBER: LUD 250.4
TELEPHONE: (212) 688-9200
TELEFAX: (212) 688-9884
INFORMATION FOR SEQ ID NO: 133:

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SEQUENCE CHARACTERISTICS:
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-249-3228-133

Query Match 3.5%: Score 20; DB 1; Length 744;
Best Local Similarity 100.0%; Pred. No. 4.0;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 556 aaagaaataaataaataa 575
|||||
DB 675 AAGGAAAAA 654

RESULT 30
US-08-469-526A-133
Sequence 133, Application US/08469526A
Patent No. 5792819
GENERAL INFORMATION:
APPLICANT: Goodheart, Andrew
APPLICANT: Stroobant, Paul
APPLICANT: Mignebelli, Luisa
APPLICANT: Materfield, Michael
APPLICANT: Marchionni, Mark
APPLICANT: Chen, Mario Su
TITLE OF INVENTION: CLIAL MITOGENIC FACTORS, THEIR
NUMBER OF SEQUENCES: 187
CORRESPONDENCE ADDRESS:
ADDRESS: 176 Federal Street
CITY: Boston
STATE: MA
COUNTRY: USA
ZIP: 02110
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
OPERATING SYSTEM: IBM Compatible
SOFTWARE: PC-DOS
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08469, 526A
FILING DATE: 06 June 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/036, 555
FILING DATE: 24-MAR-1993
APPLICATION NUMBER: 07/965, 173
FILING DATE: 23-OCT-1992
APPLICATION NUMBER: 07/940, 385
FILING DATE: 03-SEP-1992
APPLICATION NUMBER: 07/907, 138
FILING DATE: 03-JUN-1992
APPLICATION NUMBER: 07/863, 703
FILING DATE: 03-APRIL-1992
APPLICATION NUMBER: U.K. 91 07566, 3
FILING DATE: 10-APR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Bieker-Brady, Kristina
REGISTRATION NUMBER: 39,109
REFERENCE/DOCKET NUMBER: 04585/00200A
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-428-7045
TELEFAX: 617-428-7045
INFORMATION FOR SEQ ID NO: 133:
LENGTH: 744
TYPE: nucleic acid
STRANDEDNESS: single

LOCLOC: linear
US-08-469-526A-133
Query Match 3.5%: Score 20; DB 1; Length 744;
Best Local Similarity 100.0%; Pred. No. 4.0;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 556 aaagaaataaataaataa 575
|||||
DB 675 AAGGAAAAA 654

RESULT 31
US-08-734-591A-133
Sequence 133, Application US/08734591A
Patent No. 5854220
GENERAL INFORMATION:
APPLICANT: Goodheart, Andrew
APPLICANT: Stroobant, Paul
APPLICANT: Mignebelli, Luisa
APPLICANT: Materfield, Michael
APPLICANT: Marchionni, Mark
APPLICANT: Chen, Mario
TITLE OF INVENTION: CLIAL MITOGENIC FACTORS, THEIR
NUMBER OF SEQUENCES: 187
CORRESPONDENCE ADDRESS:
ADDRESS: 176 Federal Street
CITY: Boston
STATE: Massachusetts
COUNTRY: U.S.A.
ZIP: 02110
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
OPERATING SYSTEM: IBM Compatible Pentium
SOFTWARE: WinPerfect (Version 7.0)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/734, 591A
FILING DATE: 22-OCT-1996
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/470, 335
FILING DATE: 06-JUN-1995
APPLICATION NUMBER: 08/036, 555
FILING DATE: 03-MAR-1993
APPLICATION NUMBER: 07/965, 173
FILING DATE: 23-OCT-1992
APPLICATION NUMBER: 07/940, 385
FILING DATE: 03-SEP-1992
APPLICATION NUMBER: 07/907, 138
FILING DATE: 30-JUN-1992
APPLICATION NUMBER: 07/863, 703
FILING DATE: 03-APR-1992
APPLICATION NUMBER: UK 91 07566, 3
FILING DATE: 10-APR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Bieker-Brady, Kristina
REGISTRATION NUMBER: 39,109
REFERENCE/DOCKET NUMBER: 04585/00200P
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 428-7045
TELEFAX: (617) 428-7045
FLEX:

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Query Match 3.58: Score 20: DB 3: Length 744:
Best Local Similarity 100.0%: Pred No. 4.6:
Matches 20: Conservative 0: Mismatches 0: Indels 0: Gaps 0:

QY 556 aaaggaataaaataaa 575
|||||

DB 675 aaaggaataaaataaa 694

RESULT 35

US-08-735-021-133
Sequence 133: Application US/0875021B

Patient No. 6194377

GENERAL INFORMATION:

APPLICANT: GOODEN, ANDREW

APPLICANT: STROBANT, PAUL

APPLICANT: MINGHETTI, LUISA

APPLICANT: WATERFIELD, MICHAEL

APPLICANT: MARCHIONNI, MARK

APPLICANT: CHEN, MARIO S.

APPLICANT: HILES, IAN

TITLE OF INVENTION: CLIAL MITOGENIC FACTORS, THEIR

FILE REFERENCE: 01585/00200L

CURRENT APPLICATION NUMBER: US/08/735,021B

EARLIER FILING DATE: 1996-10-22

EARLIER APPLICATION NUMBER: 08/472,065

EARLIER FILING DATE: 1995-06-06

EARLIER APPLICATION NUMBER: 08/036,555

EARLIER FILING DATE: 1993-03-24

EARLIER APPLICATION NUMBER: 07/965,173

EARLIER FILING DATE: 1992-09-03

EARLIER APPLICATION NUMBER: 07/940,389

EARLIER FILING DATE: 1992-06-30

EARLIER APPLICATION NUMBER: 07/507,138

EARLIER FILING DATE: 1992-04-03

NUMBER OF SEQ ID NOS: 192

SEQ ID NOS: 192-383

LENGTH: 744

TYPE: DNA

ORGANISM: Bos taurus

FEATURE:

NAME/KEY: CDS

LOCATION: (8)...(625)

US-08-735-021-133

APPLICANT: HILES, IAN

TITLE OF INVENTION: CLIAL MITOGENIC FACTORS, THEIR
TITLE OF INVENTION: PREPARATION AND USE
INVENTOR: 187
CORRESPONDENCE ADDRESS:
ADDRESSEE: CLAY & ELLING LLP
STREET: 176 Federal Street
CITY: Boston
STATE: Massachusetts
COUNTRY: U.S.A.
ZIP: 02110

COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" diskette, 1.44 MB
COMPUTER SYSTEM: COMPATIBLE 386
OPERATING SYSTEM: WINDOWS 3.11
SOFTWARE: FASTSeq Version 2.0

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/734,664A
FILING DATE: 22-OCT-1996
CLASSIFICATION: 536

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/249,322
FILING DATE: 26-MAY-1994

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/036,555
FILING DATE: 1993

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/565,173
FILING DATE: 23-OCT-1992

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/540,389
FILING DATE: 03-SEP-1992

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/507,138
FILING DATE: 30-JUN-1992

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/965,173
FILING DATE: 03-APR-1992

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/940,389
FILING DATE: 10-APR-1991

ATTORNEY/AGENT INFORMATION:
NAME: BIEKER-BRADY, KRISTINA
REGISTRATION NUMBER: 39,109
ADDRESS: 1000 LOCUST STREET, SUITE 1000
TELEPHONE: (617) 428-0200

TELEFAX: (617) 428-7045

INFORMATION FOR SEQ ID NOS: 133:
SEQUENCE CHARACTERISTICS:
LENGTH: 744
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear

US-08-734-664A-133

Query Match 3.58: Score 20: DB 4: Length 744:
Best Local Similarity 100.0%: Pred No. 4.6:
Matches 20: Conservative 0: Mismatches 0: Indels 0: Gaps 0:

QY 556 aaaggaataaaataaa 575
|||||

DB 675 AAAGCAAAAAAAAAAAAA 694

RESULT 37

US-08-470-335-133
Sequence 133: Application US/08470335C

Patient No. 6232286

GENERAL INFORMATION:

APPLICANT: GOODEN, ANDREW

APPLICANT: STROBANT, PAUL

```
APPLICANT: MINGHETTI, LUISA
APPLICANT: WATERFIELD, MICHAEL
APPLICANT: WATERFIELD, MARK
APPLICANT: CHEN, MARIO
APPLICANT: HILES, IAN
TITLE OF INVENTION: CLIAL MITOGENIC FACTORS, THEIR
FILE REFERENCE: 04585/002008
CURRENT APPLICATION NUMBER: US/08/470.333C
CURRENT FILING DATE: 1995-06-06
EARLIER APPLICATION NUMBER: 08/036.555
EARLIER FILING DATE: 1992-04-03
EARLIER APPLICATION NUMBER: 07/907.138
EARLIER FILING DATE: 1992-06-30
EARLIER APPLICATION NUMBER: 07/863.703
EARLIER FILING DATE: 1992-04-03
EARLIER APPLICATION NUMBER: 91.07566.3 UB
SOFTWARE: PC/US94/05083C
SOFTWARE ID NO: 133
SOFTWARE ID NO: 133
LENGTH: 744
TYPE: DNA
ORGANISM: Bos taurus
FEATURE:
NAME/KEY: CDS
LOCATION: (8)...(625)
05-08-470-333-133

Query Match
Best Local Similarity 100.0% Pred No. 4.6
Matches 20: Conservative 0: Mismatches 0: Indels 0: Gaps 0:

07 556 aaagaaaaaaaaaaaaaa 575
08 675 aaagaaaaaaaaaaaaaa 694
```

```
RESULT 38
PCT-US94-05083C-129
Sequence 129, Application PC/US94/05083C
GENERAL INFORMATION:
APPLICANT: Robert Sklar, Mark Marchionni,
APPLICANT: David I. Gayne
TITLE OF INVENTION: METHODS FOR ALTERING
NUMBER OF INVENTION: MUSCLE CONDITION
CORRESPONDENCE NUMBER: 185
ADDRESSER: Fish, A. Richardson
STREET: 225 Franklin Street
CITY: Boston
STATE: Massachusetts
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch, 360
OPERATING SYSTEM: PC-DOS
SOFTWARE: Wordperfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US94/05083C
FILING DATE: 06-MAY-94
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/209,204
FILING DATE: 08-MAR-94
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/059,022
FILING DATE: 06-MAY-93
ATTORNEY/AGENT INFORMATION:
```

```
NAME: Clark, Paul I.
REGISTRATION NUMBER: 30,162
REFERENCE/KEY NUMBER: 01585/024WJ1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 342-5070
FAX: (617) 342-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 129:
SEQUENCE CHARACTERISTICS:
LENGTH: 744
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
PCT-US94-05083C-129
```

```
Query Match
Best Local Similarity 100.0% Pred No. 4.6
Matches 20: Conservative 0: Mismatches 0: Indels 0: Gaps 0:

07 556 aaagaaaaaaaaaaaaaa 575
08 675 aaagaaaaaaaaaaaaaa 694
```

```
RESULT 39
PCT-US95-0646A-133
Sequence 133, Application PC/US95/0646A
GENERAL INFORMATION:
APPLICANT: Goodheart, Andrew David; Stucourt, Paul;
APPLICANT: Minghetti, Luisa; Waterfield, Michael; Marchionni, Mark;
APPLICANT: Chen, Mario Su; Hiles, Ian
TITLE OF INVENTION: Clial Mitogenic Factors, Their
NUMBER OF INVENTION: 178
CORRESPONDENCE ADDRESS:
ADDRESSER: Faltz & Lynch
STREET: 805 Third Avenue
CITY: New York City
STATE: New York
COUNTRY: USA
ZIP: 10022
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
OPERATING SYSTEM: PC-DOS
SOFTWARE: Wordperfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/0646A
FILING DATE: 25-MAY-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/249,322
FILING DATE: 26-MAY-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/036,555
FILING DATE: 24-MAR-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/965,173
FILING DATE: 23-OCT-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/940,369
FILING DATE: 09-SEP-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/507,138
FILING DATE: 30-JUN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/863,703
FILING DATE: 03-APRIL-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 01-K, 91 07566.3
FILING DATE: 10-APRIL-1991
ATTORNEY/AGENT INFORMATION:
```

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NAME: Hanson, Norman D.
REGISTRATION NUMBER: 30,946
REGISTRATION NUMBER: 5250.5
TELEPHONE: (212) 688-9200
TELEFAX: (212) 688-9200
INFORMATION FOR SEQ ID NO: 133
SEQUENCE CHARACTERISTICS:
LENGTH: 744
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
PCT-US95-0886A-133

Query Match 3.5%: score 20; DB 5; Length 744;
Best Local Similarity 100.0%; Pred. No. 4.6;

Matches 20: Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 556 aaagaaataaaataaa 575
DB 675 AAAGCAAAATAAAATAAA 694

RESULT 40

US-09-248-335-55

Sequence 55, Application US/09248335

Patent No. 6096504

GENERAL INFORMATION:

APPLICANT: MCGONIGLE, BRIAN

TITLE OF INVENTION: PLANT GLUTATHIONE-S-TRANSFERASE ENZYMES

FILED INVENTION: 1999-02-10

CURRENT APPLICATION NUMBER: US/09/248,335

EARLIER FILING DATE: 1997-September-05

NUMBER OF SEQ ID NOS: 74

SOFTWARE: Microsoft Word Version 7.0A

SEQ ID NO 55

LENGTH: 934

TYPE: DNA

STRANDEDNESS: single

TOPOLOGY: linearize

US-09-248-335-55

Query Match 3.5%: score 20; DB 3; Length 934;
Best Local Similarity 100.0%; Pred. No. 4.5;

Matches 20: Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 556 aaagaaataaaataaa 575
DB 912 aaagaaataaaataaa 931

RESULT 41

US-08-380-916-2

Sequence 2, Application US/08380916

Patent No. 5648478

GENERAL INFORMATION:

APPLICANT: Calydon, Inc.

TITLE OF INVENTION: Tissue-Specific Enhancer Active In

PROSTATE GLANDS

CORRESPONDENCE ADDRESS:

ADDRESSER: Fleiter, Hohbach, Test, Albritton & Hartgeri

CITY: San Francisco

STATE: CA

COUNTRY: US

ZIP: 94111

COMPUTER READABLE FORM:

MEDIUM TYPE: floppy disk

COMPUTER: IBM PC COMPATIBLE
FILING SYSTEM: USPTO
FILING DATE: 12-JAN-1995
APPLICATION DATA: 424
FILING DATE: 13-JAN-1994
APPLICATION NUMBER: US 08/182,247
ATTORNEY/AGENT INFORMATION:
NAME: Norman D. Hanson
REGISTRATION NUMBER: 30,946
TELEPHONE: (212) 688-9200
TELEFAX: (212) 688-9200
INFORMATION FOR SEQ ID NO: 2
SEQUENCE CHARACTERISTICS:
LENGTH: 1192 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MEDIUM TYPE: DNA (genomic)

US-08-380-916-2

Query Match 3.5%: score 20; DB 1; Length 1192;
Best Local Similarity 100.0%; Pred. No. 4.4;

Matches 20: Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 556 aaagaaataaaataaa 575
DB 177 AAAGCAAAATAAAATAAA 196

RESULT 42

US-08-182-247-1

Sequence 1, Application US/08182247

Patent No. 5610656

GENERAL INFORMATION:

APPLICANT: HANSON, DANIEL R

TITLE OF INVENTION: TISSUE-SPECIFIC ENHANCER ACTIVE IN

PROSTATE

NUMBER OF SEQUENCES: 1

CORRESPONDENCE ADDRESS:

ADDRESSER: Townsend and Kicourie and Crew

CITY: Palo Alto

STATE: California

COUNTRY: US

ZIP: 94301

COMPUTER READABLE FORM:

MEDIUM TYPE: floppy disk

COMPUTER: IBM PC COMPATIBLE

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/182,247

FILING DATE: 13-JAN-1994

CLASSIFICATION: 576

ATTORNEY/AGENT INFORMATION:

NAME: Smith, William R

REGISTRATION NUMBER: 11444-1

TELEPHONE: (415) 326-2400

TELEFAX: (415) 326-2422

INFORMATION FOR SEQ ID NO: 1

SEQUENCE CHARACTERISTICS:

LENGTH: 1192 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

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TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
TISSUE TYPE: PROSTATE
US-08-182-247-1

Query Match 3.5% Score 20; DB 2; Length 1192;
Best Local Similarity 100.0%; Pct. No. 4.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 556 aaagaaataaaataaa 575
Db 177 AAAGCAAAAAAAAAAAAA 156

RESULT 43
US-08-721-690-2
Sequence 2: Application US/08721690
Patent No. 6057299
GENERAL INFORMATION:
APPLICANT: Henderson, Daniel R.
TITLE OF INVENTION: TISSUE-SPECIFIC ENHANCER ACTIVE
NUMBER OF SEQUENCES: 22
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORRISON & FOERSTER
STREET: 755 PAGE MILL ROAD
CITY: PALO ALTO
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 94304-1018
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US 08/721-690
FILING DATE: 27 SEP-1996
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/380,916
FILING DATE: 30-JAN-1995
APPLICATION NUMBER: US 08/182,247
FILING DATE: 13-JAN-1994
ATTORNEY/AGENT INFORMATION:
NAME: Catherine, Polizzi M
REGISTRATION NUMBER: 40,130
REFERENCE/DOCKET NUMBER: 34802-20001.21
TELEPHONE: 415-494-0752
TELEFAX: 415-494-0752
TELETYPE: 706141
INFORMATION FOR SEQ. ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 1192 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Genomic DNA
US-08-721-690-2

Query Match 3.5% Score 20; DB 3; Length 1192;
Best Local Similarity 100.0%; Pct. No. 4.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Oy 556 aaagaaataaaataaa 575
Db 177 AAAGCAAAAAAAAAAAAA 156

RESULT 44
US-08-891-561-2
Sequence 2: Application US/08891561
Patent No. 616792
GENERAL INFORMATION:
APPLICANT: Henderson, Daniel R.
TITLE OF INVENTION: TISSUE-SPECIFIC ENHANCER ACTIVE
NUMBER OF SEQUENCES: 22
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORRISON & FOERSTER
STREET: 755 PAGE MILL ROAD
CITY: PALO ALTO
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 94304-1018
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/891,561
FILING DATE:
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/380,916
FILING DATE: 30-JAN-1995
APPLICATION NUMBER: US 08/182,247
FILING DATE: 13-JAN-1994
ATTORNEY/AGENT INFORMATION:
NAME: Catherine, Polizzi M
REGISTRATION NUMBER: 40,130
REFERENCE/DOCKET NUMBER: 34802-20001.22
TELEPHONE: 415-494-0752
TELEFAX: 415-494-0752
TELETYPE: 706141
INFORMATION FOR SEQ. ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 1192 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Genomic DNA
US-08-891-561-2

Query Match 3.5% Score 20; DB 3; Length 1192;
Best Local Similarity 100.0%; Pct. No. 4.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Oy 556 aaagaaataaaataaa 575
Db 177 AAAGCAAAAAAAAAAAAA 156

RESULT 45
US-09-012-523-5
Sequence 3: Application US/09012523
Patent No. 629254
GENERAL INFORMATION:
APPLICANT: Goodman, Olga
APPLICANT: Hillman, Jennifer L.
APPLICANT: Corley, Neil C.
APPLICANT: Gueley, Karl
APPLICANT: Baugh, Mariah
TITLE OF INVENTION: HUMAN PROTEINASE MOLECULES
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyte Pharmaceuticals, Inc.

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Page 19

STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304
COMPUTER READABLE FORM: ~~xxx~~
MEDIUM TYPE: Diskette
OPERATING SYSTEM: DOS
SOFTWARE: FASTEST for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: 09/032.523
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J
REGISTRATION NUMBER: 36,719
REGISTERED POWER NUMBER: 116-0179 US
TELECOMMUNICATIONS INFORMATION:
TELEPHONE: 650-855-0555
TELEFAX: 650-845-4166
TELEX:
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 1802 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
SEQUENCE: linear
US-09-0325235

Query Match 3.5% Score 20; DB 4; Length 1802;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 556 aaagagaaaaaaaaaaaaa 575
|||||
DB 1758 AAGGAAAAAAAAAAAAAA 1777

Search completed: April 30, 2002, 10:54:05
Job time: 10918 sec

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GenCore version 4.5
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OM nucleic - nucleic search, using SW model

Run on: April 30, 2002, 10:38:12 : Search time 308.52 Seconds

(with 678,285 million cell updates/sec)

Title: US-09-248-178-62

Sequence: 924

Scoring table: OLIGO-MOC

Searched: 351203 seqs, 113338959 residues

Word size: 10

Total number of hits satisfying chosen parameters: 77163

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: listing first 45 summaries

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1: /cgn2.6/prodata/1/na/5A.COMB.seq:
2: /cgn2.6/prodata/1/na/5B.COMB.seq:
3: /cgn2.6/prodata/1/na/5A.COMB.seq:
4: /cgn2.6/prodata/1/na/5B.COMB.seq:
5: /cgn2.6/prodata/1/na/PC105.COMB.seq:
6: /cgn2.6/prodata/1/na/backtest1.seq:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	2.1	2.3	4576	2	US-08-832-881-15
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4	2.1	2.3	4576	4	US-08-832-881-15
5	2.1	2.3	4576	5	US-08-832-881-15
6	2.1	2.3	4576	6	US-08-832-881-15
7	2.1	2.3	4576	7	US-08-832-881-15
8	2.1	2.3	4576	8	US-08-832-881-15
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11	2.1	2.3	4576	11	US-08-832-881-15
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13	2.1	2.3	4576	13	US-08-832-881-15
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18	2.1	2.3	4576	18	US-08-832-881-15
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21	2.1	2.3	4576	21	US-08-832-881-15
22	2.1	2.3	4576	22	US-08-832-881-15
23	2.1	2.3	4576	23	US-08-832-881-15
24	2.1	2.3	4576	24	US-08-832-881-15
25	2.1	2.3	4576	25	US-08-832-881-15
26	2.1	2.3	4576	26	US-08-832-881-15
27	2.1	2.3	4576	27	US-08-832-881-15

26	18	1.5	432	2	US-08-856-830-1	Sequence 1, Appl1
25	18	1.5	432	2	US-08-856-830-1	Sequence 1, Appl1
30	18	1.5	561	4	US-08-578-634-1	Sequence 4, Appl1
31	18	1.5	561	4	US-08-578-634-1	Sequence 4, Appl1
32	18	1.5	561	4	US-08-578-634-1	Sequence 4, Appl1
33	18	1.5	561	4	US-08-578-634-1	Sequence 4, Appl1
34	18	1.5	561	4	US-08-578-634-1	Sequence 4, Appl1
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36	18	1.5	561	4	US-08-578-634-1	Sequence 4, Appl1
37	18	1.5	561	4	US-08-578-634-1	Sequence 4, Appl1
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39	18	1.5	561	4	US-08-578-634-1	Sequence 4, Appl1
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43	18	1.5	561	4	US-08-578-634-1	Sequence 4, Appl1
44	18	1.5	561	4	US-08-578-634-1	Sequence 4, Appl1
45	18	1.5	561	4	US-08-578-634-1	Sequence 4, Appl1

ALIGNMENTS

RESULT 1
US-08-832-881-15/C
Sequence 45, Application US/08832883
Patent No. 5607681
GENERAL INFORMATION:
APPLICANT: Giordano, Antonio
TITLE OF INVENTION: METHODS FOR THE DIAGNOSIS AND PROGNOSIS
OF CANCER
NUMBER OF SEQUENCES: 115
CORRESPONDENCE: STIDEL CONNA, LAVORONA & MONACO, P.C.
STREET: Suite 1800 Two Penn Center Plaza
CITY: Philadelphia
STATE: PA
COUNTRY: USA
ZIP: 19102
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: DOS/MS-DOS
OPERATING SYSTEM: DOS/MS-DOS
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/832,883
FILING DATE: 4/4/92
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Monaco, Daniel A
REGISTRATION NUMBER: 30,480
REFERENCE/DOCKET NUMBER: 8311-13 US1
TELEPHONE: 215 5655549
TELEFAX: 215 5655549
INFORMATION FOR SPO ID NO: 49:
SEQUENCE CHARACTERISTICS:
LENGTH: 4576 base pairs
TYPE: nucleic acid
STRANDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-832-883-45
Query Match: 2.3%, Score 21, DB 1, Length 4576;
Best Local Similarity: 100.0%; Pred No. 1.5;
Matches: 21; Conservative: 0; Mismatches: 0; Indels: 0; Gaps: 0;
DB 2855 GAGGCAAAAAAATAAAAAA 2835

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1      LENGTH: 565
2      TYPE: LNA
3      ORGANISM: Homo sapiens
4      BUILD: 1
5      NAME/ID: misc feature
6      LOCATION: (1)---(565)
7      OTHER INFORMATION: n - A.T.C or G
8      US-03-365-562-275
9
10     Query Match      2.2%: Score 20: 1b 4: Length 565:
11     Best Local Similarity 100.0%: Pident 4.0:
12     Matches 20: Conservative 0: Mismatches 0: Indels 0: Gaps
13
14     905 aaagcagaaagaaagaaagaaagaa 924
15     |||||||
16     Ed 2a AACGCAAAAAAAAAAAAAAAAA 5
17
18 RESULT 4
19 US-08-670-126 1a/C
20 Sequence 10: Application US/06670126
21 Patent No 4615702
22
23 GENERAL INFORMATION:
24 APPLICANT: Pendergast, George C.
25 TITLE OF INVENTION: Murine and Human Box-Dependent
26 TITLE OF INVENTION: MYC-Interacting Protein (Bin1) and Uses Therefo
27 NUMBER OF SEQUENCES: 14
28
29 CORRESPONDENCE ADDRESS:
30 ADDRESSEE: MCGRAW-HILL
31 STREET: 1221 Avenue of the Americas
32 CITY: Spring House
33 STATE: Pennsylvania
34 COUNTRY: USA
35 ZIP: 15417
36
37 COMPUTER READABLE FORM:
38 MEDIUM TYPE: Floppy disk
39 COMPUTER: IBM PC compatible
40 OPERATING SYSTEM: DOS
41 SERIAL NUMBER: 10000000
42 CURRENT APPLICATION DATA:
43 APPLICATION NUMBER: US/08/670,126

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Query Match          2.2% Score 20; Db 4; Length 586b;
Best Local Similarity 100.0%; Pred. No., 4.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0.
ID      905 aaagcaaaaaaaahaaa 924
       11111111111111111111
Db      26 AACGCAAAAAAAAAAAAAA 5

RESULT 4
US-08-870-126-1u/c
Sequence 10, Application US/08670126
Patent No. 6018702
GENERAL INFORMATION:
APPLICANT: Pendergast, George C.
APPLICATOR: Sakamuro, Daitoku
TITLE OF INVENTION: Murine and Human Box-Dependent
NUMBER OF SEQUENCES: 14
CONTRACTOR: Hoxson and Hoxson
ADDRESS: Hoxson House Corporate Cntr., P O Box 457
Street: Spring House
City: Spring House
State: Pennsylvania
COUNTRY: USA
ZIP: 15477

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: DOS
SPRINGER: Software Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/870,126
FILING DATE:
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/435,454
FILING DATE: 05-MAY-1995
PRIORITY APPLICATION DATA: US 08/652,572
APPLICATION NUMBER: 04-MAY-1996
ATTORNEY/AGENT INFORMATION:
NAME: KcJorff, Cathy A.
REGISTRATION NUMBER: 33,980
REFERENCE/DOCKET NUMBER: WST60CUSA
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-540-9200
TELEFAX: 215-540-5818
INFORMATION FOR SEQ ID NO.: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 3326 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: unknown
FEATURE:
NAME/KEY: exon
LOCATION: 677..734
OTHER INFORMATION: /note= "exon 3"
NAME/KEY: exon
LOCATION: 851..945
OTHER INFORMATION: /note= "exon 4"

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US-09-248-178-62.rnt

Db 7 AGCMAAAAAAAAAAAAAA 25

RESULT 8

US-08-858-767-22

Sequence 22, Application US/08858767

Patent No. 5837468

GENERAL INFORMATION:

APPLICANT: MANG, Xun

APPLICANT: BRIGGS, Steven P.

TITLE OF INVENTION: PCR-BASED CDNA SUBTRACTIVE CLONING

TITLE OF INVENTION: METHOD

NUMBER OF SEQUENCES: 39

CORRESPONDENCE ADDRESS:

ADDRESSEE: Foley & Lardner

STREET: 3000 K Street, N.W., Suite 500

CITY: Washington

STATE: D.C.

COUNTRY: USA

ZIP: 20007-5109

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/858,767

FILING DATE: 19-MAY-1997

CLASSIFICATION:

Prior Application Data:

Application Number: US 08/481,687

Filing Date: 07-JUN-1995

Attorney/Agent Information:

Name: BENT, Stephen A.

Registration Number: 39,768

TELECOMMUNICATION INFORMATION:

Reference/Docket Number: 3329/325/PIH1

Telephone: (202)672-5399

Telex: 904116

Information for SEQ ID NO: 22:

Sequence Characteristics:

Length: 28 base pairs

Type: nucleic acid

Strandedness: single

Topology: linear

Query Match 2.1% Score 19; DB 2; Length 28;

Best Local Similarity 100.0%; Pred. No. 14;

Matches 19; Conservative 0; Mismatches 0; Indels 0;

Gaps 0;

Y 906 aggcataaaaaaaaaa 924

Db 7 AGCMAAAAAAAAAAAAAA 25

RESULT 9

US-08-858-767-23

Sequence 23, Application US/08858767

Patent No. 5837468

GENERAL INFORMATION:

APPLICANT: MANG, Xun

APPLICANT: BRIGGS, Steven P.

TITLE OF INVENTION: PCR-BASED CDNA SUBTRACTIVE CLONING

TITLE OF INVENTION: METHOD

NUMBER OF SEQUENCES: 39

CORRESPONDENCE ADDRESS:

ADDRESSEE: Foley & Lardner

STREET: 3000 K Street, N.W., Suite 500

CITY: Washington

STATE: D.C.

COUNTRY: USA

ZIP: 20007-5109

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/858,767

FILING DATE: 19-MAY-1997

STREET: 3000 K Street, N.W., Suite 500

CITY: Washington

STATE: D.C.

COUNTRY: USA

ZIP: 20007-5109

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/858,767

FILING DATE: 19-MAY-1997

CLASSIFICATION: 435

Prior Application Data:

Application Number: US 08/481,687

Filing Date: 07-JUN-1995

Attorney/Agent Information:

Name: BENT, Stephen A.

Registration Number: 39,768

TELECOMMUNICATION INFORMATION:

Reference/Docket Number: 3329/325/PIH1

Telephone: (202)672-5399

Telex: 904116

Information for SEQ ID NO: 23:

Sequence Characteristics:

Length: 28 base pairs

Type: nucleic acid

Strandedness: single

Topology: linear

Query Match 2.1% Score 19; DB 2; Length 28;

Best Local Similarity 100.0%; Pred. No. 14;

Matches 19; Conservative 0; Mismatches 0; Indels 0;

Gaps 0;

Y 906 aggcataaaaaaaaaa 924

Db 7 AGCMAAAAAAAAAAAAAA 25

RESULT 10

US-08-858-767-21

Sequence 21, Application US/08858767

Patent No. 5837468

GENERAL INFORMATION:

APPLICANT: MANG, Xun

APPLICANT: BRIGGS, Steven P.

TITLE OF INVENTION: PCR-BASED CDNA SUBTRACTIVE CLONING

TITLE OF INVENTION: METHOD

NUMBER OF SEQUENCES: 39

CORRESPONDENCE ADDRESS:

ADDRESSEE: Foley & Lardner

STREET: 3000 K Street, N.W., Suite 500

CITY: Washington

STATE: D.C.

COUNTRY: USA

ZIP: 20007-5109

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/858,767

FILING DATE: 19-MAY-1997

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Page 5

APPLICATION NUMBER: US 08/481,687
FILING DATE: 07-JUN-1995
ATTORNEY/AGENT INFORMATION:
NAME: BENT, Stephen A.
REGISTRATION NUMBER: 33229/325/PIH1
REFERENCE/DOCKET NUMBER: 33229/325/PIH1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202)672-5300
TELEFAX: (202)672-5399
TELEX: 904136
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 28 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-863-028-21

Query Match 2.1% Score 19; DB 2; Length 28;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 906 agcccaaaaaaaaaaaaaa 924
DB 7 AGCCAAAAAAAAAAAAAAAA 25

RESULT 11
US-08-863-028-22
Sequence 22, Application US/08863028
Patent No. 5653591
GENERAL INFORMATION:
APPLICANT: WANG, Xun
APPLICANT: DUVICK, Jonathan P.
TITLE OF INVENTION: PCR-BASED CDNA SUBTRACTIVE CLONING
TITLE OF INVENTION: METHOD
NUMBER OF SEQUENCES: 39
CORRESPONDENCE ADDRESS:
ADDRESSEE: Foley & Lardner
STREET: 3000 K Street, N.W., Suite 500
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/863,028
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/858,767
FILING DATE: 19-MAY-1997
APPLICATION NUMBER: US 08/481,687
FILING DATE: 07-JUN-1995
ATTORNEY/AGENT INFORMATION:
NAME: BENT, Stephen A.
REGISTRATION NUMBER: 29,768
REFERENCE/DOCKET NUMBER: 33229/325/PIH1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202)672-5300
TELEFAX: (202)672-5399
TELEX: 904136
INFORMATION FOR SEQ ID NO: 22:
SEQUENCE CHARACTERISTICS:
LENGTH: 28 base pairs
TYPE: nucleic acid
STRANDEDNESS: single

TOPOLOGY: linear
US-08-863-028-22
Query Match 2.1% Score 19; DB 2; Length 28;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 906 agcccaaaaaaaaaaaaaa 924
DB 7 AGCCAAAAAAAAAAAAAAAA 25

RESULT 13
US-08-863-028-23
Sequence 23, Application US/08863028
Patent No. 5653591
GENERAL INFORMATION:
APPLICANT: WANG, Xun
APPLICANT: DUVICK, Jonathan P.
TITLE OF INVENTION: PCR-BASED CDNA SUBTRACTIVE CLONING
TITLE OF INVENTION: METHOD
NUMBER OF SEQUENCES: 39
CORRESPONDENCE ADDRESS:
ADDRESSEE: Foley & Lardner
STREET: 3000 K Street, N.W., Suite 500
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/863,028
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/858,767
FILING DATE: 19-MAY-1997
APPLICATION NUMBER: US 08/481,687
FILING DATE: 07-JUN-1995
ATTORNEY/AGENT INFORMATION:
NAME: BENT, Stephen A.
REGISTRATION NUMBER: 29,768
REFERENCE/DOCKET NUMBER: 33229/325/PIH1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202)672-5300
TELEFAX: (202)672-5399
TELEX: 904136
INFORMATION FOR SEQ ID NO: 23:
SEQUENCE CHARACTERISTICS:
LENGTH: 28 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-863-028-23

Query Match 2.1% Score 19; DB 2; Length 28;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 906 agcccaaaaaaaaaaaaaa 924
DB 7 AGCCAAAAAAAAAAAAAAAA 25

RESULT 13
US-09-248-335-25

Wed May 1 07:51:05 2002

us-09-248-178-62.rml

Page 7

APPLICANT: CARLLO, MCKENNA
TITLE OF INVENTION: ENCODED PROTEINS
NUMBER OF SEQUENCES: 12
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Genetics Institute, Inc. -- Legal Affairs
STREET: 87 Cambridgepark Drive
CITY: Cambridge
STATE: Massachusetts
COUNTRY: USA
ZIP: 02140
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/833,623
FILING DATE: 10-APR-1997
CLASSIFICATION: 530
PRIORITY INFORMATION:
ATTORNEY/AGENT INFORMATION:
NAME: Brown, Scott A.
REGISTRATION NUMBER: 33,724
REFERENCE/DOCKET NUMBER: G16000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 498-8234
TELEFAX: (617) 876-5851
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 2205 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
FEATURE:
NAME/KEY: CDS
LOCATION: 38..1447
US-08-813-823-1

Query Match 2.1% Score 19; DB 2; Length 2205;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

DB 2162 AGCGAAGAAAAA 2180

RESULT 17
US-08-813-150-1
Sequence 1, Application US/08813150
GENERAL INFORMATION:
APPLICANT: Mueller, Christopher
APPLICANT: Lebeque, Serge J.E.
APPLICANT: Liu, Yong-Jun
APPLICANT: Dowling, Lynette M.
APPLICANT: Hoshino, Naoki
APPLICANT: Jordan, David W.
TITLE OF INVENTION: MAMMALIAN PROTEINASES, OXIDOREDUCTASES;
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESSES:
ADDRESSEE: DNAX Research Institute
STREET: 901 California Avenue
CITY: Palo Alto
STATE: California
COUNTRY: USA

21% 34304-1104
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/813,150
FILING DATE: 07-MAR-1997
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: Gilling, Edwin P.
REGISTRATION NUMBER: 34,080
REFERENCE/DOCKET NUMBER: SP0693
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-852-9196
TELEFAX: 650-466-1200
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 2280 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
FEATURE:
NAME/KEY: CDS
LOCATION: 61..1470
US-08-813-150-1

Query Match 2.1% Score 19; DB 3; Length 2280;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

DB 2184 AGCGAAGAAAAA 2202

RESULT 18
PC-US95-09261-1
Sequence 1, Application PC/US9509261
GENERAL INFORMATION:
APPLICANT: NAME: BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM
APPLICANT: STREET: 201 West 7th Street
APPLICANT: CITY: Austin
APPLICANT: STATE: Texas
APPLICANT: COUNTRY: United States of America
APPLICANT: POSTAL CODE: 78701
APPLICANT: TELEPHONE NO: (512)499-4462
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR THE EXPRESSION OF
NUMBER OF SEQUENCES: 3
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Arnold White & Burke
STREET: P.O. Box 4433
CITY: Houston
STATE: Texas
COUNTRY: UNITED STATES OF AMERICA
ZIP: 77210
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS/ASCII
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PC/US95/09261
FILING DATE: CONCURRENTLY HERewith
CLASSIFICATION:
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 08/263,701

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Page 10

TELEFAX: (703)413-2220
INFORMATION FOR SEQ ID NO: 85:
SOURCE: GenBank
LENGTH: 57 base pairs
TYPE: nucleic acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: cDNA
US-08-478-675-85

Query Match 1 9% Score 18; Db 1; Length 57;
Best Local Similarity 100.0%; Freq No. 36;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 36 GCGCAAAAAAAAAA 53
907 GCGCAAAAAAAAAA 924
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RESULT 23
US-08-721-488-4
Sequence 1, Application US/08721488
Patent No. 5965388

GENERAL INFORMATION:
APPLICANT: McCoy, John
APPLICANT: Lavalley, Edward
APPLICANT: Racle, Lisa
APPLICANT: Metberg, David
APPLICANT: Treacy, Maurice
APPLICANT: Boudreau, Michel
TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES
NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genetics Institute, Inc.
STREET: 87 CambridgePark Drive
CITY: Cambridge
STATE: Massachusetts
ZIP: 02140

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/721,488
FILING DATE: 03-OCT-1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Brown, Scott A.
REGISTRATION NUMBER: 32,724
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 498-8224
TELEFAX: (617) 876-5851
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 308 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
US-08-721-488-4

Query Match 1 9% Score 18; Db 2; Length 308;
Best Local Similarity 100.0%; Freq No. 36;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

507 GCGCAAAAAAAAAA 924
266 GCGCAAAAAAAAAA 263
|||||

Sequence 157, Application US/08943731
Patent No. 6265157
GENERAL INFORMATION:

APPLICANT: BROCKOP, DARWIN J.
APPLICANT: SPOTILA, LORETTA D.
APPLICANT: DELIAS, CONSTANTINOS D.
APPLICANT: LERED, LARISSA N.
APPLICANT: PACK, MICHAEL
APPLICANT: COLIGE, ALAIN
APPLICANT: EARLY, JAMES
APPLICANT: KORKKO, JARMO
APPLICANT: ALA-KORKO, LEENA, et al.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DETECTING
NUMBER OF SEQUENCES: 666
CORRESPONDENCE ADDRESS:
ADDRESSEE: PATITCH SCHWARZ JACOBS & NUDEL, P.C.
STREET: ONE COMMERCE SQUARE, 2005 MARKET STREET, 22ND
CITY: PHILADELPHIA
STATE: PA
COUNTRY: USA
ZIP: 19103-7086

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/943,731
FILING DATE: 03-OCT-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/212,322
FILING DATE: 12-MAR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/603,626
FILING DATE: 03-DEC-1991

ATTORNEY/AGENT INFORMATION:
NAME: DOYLE LEARY Ph.D., KATHRYN
REGISTRATION NUMBER: 36,317
REFERENCE/DOCKET NUMBER: 9556-27
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-565-1284
TELEFAX: 215-567-2991
CLASSIFICATION: 157
INFORMATION FOR SEQ ID NO: 157:
SEQUENCE CHARACTERISTICS:
LENGTH: 343 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-943-731-157

Query Match 1 9% Score 18; Db 4; Length 343;
Best Local Similarity 100.0%; Freq No. 35;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;


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1 Sequence 1 Application US/0858930
2 Patent No. 5965693
3
4 GENERAL INFORMATION:
5 APPLICANT: Jacobs, Kenneth
6 APPLICANT: Jacobson, David
7 APPLICANT: Lovell, Edward
8 APPLICANT: Racine, Lisa
9 APPLICANT: Merberg, David
10 APPLICANT: Treacy, Maurice
11 APPLICANT: Spaulding, Vikki
12 TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES
13 NUMBER OF SEQUENCES: 11
14 CORRESPONDENCE ADDRESS:
15 STREET: 87 Cambridgepark Drive
16 ADDRESS: Genetics Institute, Inc.
17 CITY: Cambridge
18 STATE: Massachusetts
19 COUNTRY: U.S.A.
20 ZIP: 02140
21
22 COMPUTER READABLE FORM:
23 MEDIUM TYPE: Floppy disk
24 COMPILING SOFTWARE: GENCOMP/US-POS
25 OPERATING SYSTEM: GENCOMP/US-POS
26 SOFTWARE: Patent In Release #1.0, Version #1.30
27 CURRENT APPLICATION DATA:
28 APPLICATION NUMBER: US/08/858, 830
29 FILING DATE:
30 CLASSIFICATION: 435
31 PRIOR APPLICATION DATA:
32 APPLICATION NUMBER: 08/702,080
33 FILING DATE:
34 ATTORNEY/AGENT INFORMATION:
35 NAME: SCOTT, JAMES
36 REGISTRATION NUMBER: 8,32,774
37 TELECOMMUNICATION INFORMATION:
38 TELEPHONE: (617) 498-8274
39 TELEFAX: (617) 876-5851
40 INFORMATION FOR SEO ID NO: 1:
41 SEQUENCE CHARACTERISTICS:
42 LENGTH: 432 base pairs
43 TYPE: nucleic acid
44 STRANDNESS: double
45 MODIFICATION: none
46 MOLECULE TYPE: cDNA
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48 US-08-858-830-1
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RESULT: 32
US-09-358-111-972/C
Sequence 574; Application US/0536111
Patent No. 6566333;
DEPOSITION INFORMATION:
APPLICANT: NATIONSON,
APPLICANT: STEINMANN, Nathan G.
APPLICANT: Astle, Jon H.
APPLICANT: Burgess, Christopher C.
APPLICANT: Bushnell, Steven E.
APPLICANT: Carroll III, Eddie
APPLICANT: Celino, Theodore J.
APPLICANT: Pettit, Adam
APPLICANT: Pridmore, John A.
APPLICANT: Lewis, Marcia E.
APPLICANT: Monahan, John E.
TITLE OF INVENTION: NOVEL HUMAN GENES AND GENE EXPRESSION
TITLE OF INVENTION: PRODUCTS
FILE REFERENCE: CCD-257 (US)
CORRESPONDENCE NUMBER: US/05/326,111
EXPIRATION DATE: 2025-06-06
EXPIRATION DATE: 2025-06-06

```

: NUMBER OF SEQ ID NOS: 850
: SOFTWARE: FASTSEQ for Windows Version 3.0
: SEQ ID NO: 572
: LENGTH: 621

```

```

TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc-feature

```

```

US-03-326-111-572
*****
Query Match: 1 94; Score 16; Dh 4; Length 621;
Best Local Similarity 100.0%; Pwd. No. 35;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 307 ggcacaaataaaaaaaa 924
|||||
|||||
Ld 40 GCGAAAAAAAAAAAAA 73

RESULT 33
US03-62474-13
US03-62474-13 Application US/05461474
Patent No. 6,276,012
GENERAL INFORMATION:
APPLICANT: Allen, Steve
APPLICANT: Rafalski, Antoni
APPLICANT: Sakai, Hajime
TITLE OF INVENTION: Plant Metal Transporters
FILE REFERENCE: BB1303 US NA
CURRENT APPLICATION NUMBER: US/05/461,474
CURRENT FILING DATE: 1999-12-14
EARLIER APPLICATION NUMBER: 60/112,562
EARLIER FILING DATE: 1998-12-16
INVENTOR: SEO ID NOS: 179 67
SERIAL NO: 179 67

```

```

1      LEAD: 790
2      112.500
3      CRIMINAL_TITICUM DESTIVUM
4      US-09-451-474.11
5
6      Query: Match      1.5%: Score 16: DB 4: Length 790:
7      Match Local Similarity 100.0%: Pred. No. 34:
8      Matches 18: Conservative 0: Mismatches 0: Indels 0: Gaps 0:

```


Wed May 1 07:51:05 2002

Db 1306 GGCAAAAAAAAA 1323

RESULT 39

US-08-029-003-14
; Sequence 14, Application US/08029553

Patent No. 5817762
GENERAL INFORMATION:

APPLICANT: Kley, Patrick W.
APPLICANT: Moore, Karen L.

TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND PREVENTION OF HIV INFECTION

```

; TITLE OF INVENTION: 112
; NUMBER OF SEQUENCES: 59

```

CORRESPONDENCE ADDRESS:
ADDRESSEE: People & EdmondsSTREET: 1155 AV
CITY: New York

STATE: New York

COUNTRY: U.S.A.
ZIP: 10036-2711

COMPUTER READABLE
MEDIUM TYPE: F1

COMPUTER: IBM F

OPERATING SYSTEM: Paten
SOFTWARE: Paten

```

; CURRENT APPLICATION
; APPLICATION NUMBER

```

FILING DATE: 26
CLASSIFICATION:

CLASSIFICATION:
PRIOR APPLICATION

```

; APPLICATION NUMBER:
; FILING DATE: 12

```

ATTORNEY/AGENT INFORMATION
NAME: COLUZZI

REGISTRATION NUMBER
; ;
DEPARTMENT OF RECORDS AND ADMINISTRATION
RECEIVED; REFERENCE/DOCUMENT
; TELECOMMUNICATION
;TELEPHONE: (212) 312-2200
TELEFAX: (212) 312-2200

TELEX: 66141 P
INFORMATION FOR SEC

SEQUENCE CHARACTERISTICS:

```

; LENGTH: 1338 bytes
; TYPE: nucleic acid
;

```

STRANDEDNESS: unknown
TOPOLOGY: unknown

MOLECULE TYPE: DI
FEATURES:

FEATURE:	CDS
NAME/KEY:	

```

; LOCATION: 1..6:
US-08-829-553-14

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Query Match

Best Local Similitude
Matches 18; Consequence

QV 507 qQCaAaAaAaAaAaAa

DB 1306 GGCAAAAAAAAA

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RESULT 40

US-08-922-267A-14
: Sequence 14, Apollica

Patent No. 5861239

GENERAL INFORMATION
APPLICANT: Kleya

APPLICANT: MOORE
TITLE OF INVENTION

TITLE OF INVENTION
NUMBER OF SEQUENCES

NUMBER OF SEQUENCES
CORRESPONDENCE ADDRESS

Wed May 1 07:51:05 2002

us-09-248-178-62.rml

DE	RNA sequence of human breast tumor virus 1a1b2.
XX	
XX	
XX	ant: breast tumour antigen; cytotoxic immunotherapy;
XX	breast cancer vaccine; SS.
XX	
XX	and sapientia.
XX	
XX	..-00061756-A2.
XX	
XX	..-0001-2000.
XX	
XX	..-APR-2000: 2000MO-0050568.
XX	..-APR-1999: 5905-036050.
XX	..-JUL-1999: 5905-0346327.
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[illegible]

Filed May 1 07:51:23 2002

us-09-248-178-67.rng

Page 3

[illegible][illegible]

ID	Aa170254	standard: CDNA; 543 bp.
XX		
XX	Aa170254:	
XX		
DI	1y-SEP-2001	(first entry)
XX		
XX	Human cervical cancer marker nucleic acid 1576.	
XX		
XX	Cervical cancer: cytostatic: pre-malignant condition: gene therapy; ss	
XX		

PN	Ww50013467-A2.
XX	
XX	14-JUN-2001.
PD	
XX	
XX	Gr-PLC-2000; 2000MO-US3312.
PF	
XX	Gr-PLC-1999; 590S-0156681.
XX	Gr-PLC-1999; 590S-0156681.
PR	21-DEC-2000; 2000S-014350.
PR	21-DEC-2000; 2000S-014350.
PR	12-MAY-2000; 2000S-0203751.
PR	04-JUN-2000; 2000S-0210600.
PR	21-JUL-2000; 2000S-0220114.
XX	
XX	(M.I.T.) MILLENNIUM PREDICTIVE MEDICINE INC.
PA	
XX	Schlegel R, Deeds J, Berger A, Zhao X;
P1	
XX	

1X New isolated nucleic acid for diagnosing and treating cervical cancer
 1Y and for assessing and detecting compounds for treating the cancer -
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SQ      Sequence 543 BP; 134 A; 103 C; 117 G; 189 T : 0 other:

Query Match          3.8%; Score 23;   LB: 22; Length 543.
Best Local Similarity    100.0%; Pred. No. 6.5;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

CG      560 acacattttttttttttttttttttt 550
              ||| | | | | | | | | | | | | | | | | | | |
LD       77 ACATATTAAAAAAAAAAAAAAAAAAA 55

RESULT  7
AACG650J AACG650J standard: cDNA: 638 bp.
```

22-FEB-2001 (first entry)

cardiac; gene therapy; cancer; immune disorder; cardiovascular disorder
 KM neurological disease; infection; human; secreted protein; ss.
 XX

[illegible]

CC	acid sequences: AAV3415-934276; amino acid sequences AAW75057-W75179)
CC	which are useful for preventing, treating or ameliorating medical
CC	conditions e.g. by protein or gene therapy. Also, pathological
CC	polypeptides can be diagnosed by determining the amount of the new
CC	the non-polynucleotides. Specific uses are described for each of the 70
CC	(see AAV34154 for detailed uses).
XX	
SO	Sequence 1075 BP: 251'A: 308 C: 302 G: 212 T: 2 other:
XX	
Query Match	3.74: Score 22: DB 19: length 1075:
Best Local Similarity	100.0% Pred. No. 14:
Matches 22:	Conservative: 0: Mismatches: 0: Indels: 0: Gaps: 0
Cy	559 GATATTAAATAAATAAAAAA 550 Db 1030 -GATTTTAAAAAAAAAAAAA 1051
RESULT 10	
AAV34159	
ID	AAV34159 standard: DNA: 1105 BP.
XX	
XX	AAV34159:
XX	
DI	28-JAN-1999 (first entry)
XX	
DE	Human secreted protein gene 16 clone HMAH07.
XX	
KW	Human: secreted protein: fusion protein: gene therapy: protein therapy:
KW	diagnosis: tissue: cancer: tumour: neurodegenerative disorder: leukaemia:
KM	electrical abnormality: focal deficiency: blood: allergy: renal: ds:
KM	immune system: asthma: lymphocytic disease: brain: hepatic: lymphoma:
KM	constitutive: ischemic shock: Alzheimer's disease: restenosis: AIDS:
KM	osteoporosis: arthritis: osteoarthritis: prostate: obesity: osteoclast: thymus:
XX	endocytosis: metabolism: regulation: malabsorption: gastritis: neoplasm.
XX	
OS	Homo sapiens.
XX	
PN	M09819415-A2.
XX	
XD	11-SEP-1998.
XX	
PF	06-MAR-1998: 5EMO-USC4492.
XX	
PR	07-MAR-1997: 970S-0038621.
PR	07-MAR-1997: 970S-0040161.
PR	07-MAR-1997: 970S-0040162.
PR	07-MAR-1997: 970S-0040163.
PR	07-MAR-1997: 970S-0040333.
PR	07-MAR-1997: 970S-0040336.
PR	07-MAR-1997: 970S-0040338.
PR	07-MAR-1997: 970S-0040526.
PR	11-APR-1997: 970S-0043312.
PR	11-APR-1997: 970S-0043313.
PR	11-APR-1997: 970S-0043314.
PR	11-APR-1997: 970S-0043315.
PR	11-APR-1997: 970S-0043568.
PR	11-APR-1997: 970S-0043569.
PR	11-APR-1997: 970S-0043570.
PR	11-APR-1997: 970S-0043571.
PR	11-APR-1997: 970S-0043572.
PP	23-MAY-1997: 970S-0043574.
PR	23-MAY-1997: 970S-0047500.


```

FF      10-FEB-1986;    B5EP-0300894.
FX
PR      12-FEB-1985;    B5US-0700775.
PX      (GCTH ) GENENTECH INC.
XX
ZL      Bell JR., Ulrich A., Pamechandran J:
XR      WPI: 1986-226966/35.
YR      P-PADB: AAP60005.
PY
PT      New DNA encoding insulin receptor or its fragments - used for
PS      synthesis of receptor and mutants for therapeutic and diagnostic
PX      use
PF      Disclosure: Fig 1B: 62pp: English.
PC
CC      A mutant IR is claimed which may have a mutated alpha-chain, esp. at
CC      the precursor processing site. The beta-chain may be mutated, e.g.
CC      by deletion of the transmembrane sequence; the tyrosine kinase
CC      activity may be inactivated. Fig. 5 is a comparison of oncogene and
CC      human EGF receptor sequences with that of HIR in the cytoplasmic
CC      domain of the insulin receptor beta subunit.
CY
CO      Sequence 5198 BP: 1237 A: 1363 C: 190 G: 1208 T: 0 other:
C#
Query Match          3 7% Score 22: DB 7: Length 5198:
Best Local Similarity 100.0%; Pred. No. 11:
Matches 22: Conservative 0: Mismatches 0: Indels 0: Gaps 0:
JY      569 catatttaaaaaaaaaaaaaaa 590
Eb      |||||||
Eb      5173 catacttaaaaaaaaaaaaaaaa 5194
E#
RESULT 12
AAE97854
ID      AAE97854 standard: DNA: 34488 BP.
AC
AAE97854:
UT      31-MAY-2001 (first entry)
XX
XX      Human neuroblastoma cell line NB-1 Ip35 nucleotide sequence SEQ ID NO:46.
XX
XX      Human chromosome j: 1p35: neuroblastoma cell line: NB-1: anticancer:
XX      tumour suppressor: human Ip35 homozygosity deletion domain: tumour:
XX      diagnosis: ds.
XX
XX      Homo sapiens.
XX
XX      MO200116311-AI.
XX
XX      08-MAR-2001.
XX
XX      31-AUG-2000: 200OKO-JP09330.
XX
XX      31-AUG-1999: 99JP-0245962.
XX      09-MAY-2000: 2000JP-0132665.
XX
XX      (HISM ) HISAKITSU PHARM CO LTD.
XX      (CHIB-) CHIBA PREFECTURE.
XX
XX      Nakagawara A:
XX
XX      WPI: 2001-226666/23.
XX
XX      Human Ip35 homozygosity deletion domain from the 36-position of first
XX      chromosome short arm in human neuroblastoma cell line: application g
XX      In gene diagnosis of tumors as well as in developing anti-cancer drugs.
XX

```

[illegible]

XX Sequence 121162 BP: 33272 A: 24108 C: 25842 G: 37919 T: 21 other:
 SO
 Query Match 3.7%: Score 22: DB 21: Length 121162:
 Best Local Similarity 100.0%: Pred. No. 7.5:
 Matches 22: Conservative 0: Mismatches 0: Indels 0: Gaps 0:
 OY 569 catatttcaaaaaaaaaa 590
 DB 47604 catatttcaaaaaaaaaa 47625

RESULT 14
 AAF60545
 ID AAF60545 standard: DNA: 67 BP.
 AC AAF60545:
 XX
 XX 27-APR-2001 (first entry)
 DT
 XX Probe 42 used in a method for quantifying analyte polynucleotides.
 XX
 XX Probe: HIV; ss.
 XX
 XX Human immunodeficiency virus type 1.
 OS
 XX MO200107661-A2.
 PM
 XX 01-FEB-2001.
 PD
 XX 21-JUL-2000: 2000MO-US20034.
 PP
 XX 23-JUL-1999: 99US-0145432.
 XX
 XX (GEMP-) GEN-PROBE INC.
 PA
 XX Nucleonera K:
 PI
 XX WPI: 2001-182804/18.
 DR
 XX
 XX Detecting and quantitating analyte polynucleotide in a sample, by
 PT co-amplifying analyte polynucleotide with predetermined amount of:
 PT pseudo target, producing amplification products and quantifying analyte
 PT amplicons -
 PI
 XX
 XX Example 3: Page 39, 78pp: English.
 PS
 XX The present invention relates to a method for quantifying analyte
 CC polynucleotides (AP). The method comprises combining a test sample of AP
 CC with predetermined amount of a pseudo target (PT) and co-amplifying, to
 CC produce a collection of amplification products including an analyte
 CC amplicon. If the sample contained AP and PT amplicon, the analyte amplicon
 CC is quantified without reference to the amount of the pseudo target. The
 CC method of the present invention is a probe used in the method
 CC of the present invention.
 CC
 CC Sequence 67 BP: 36 A: 9 C: 5 G: 17 T: 0 other:
 SO

Query Match 3.6%: Score 21: DB 22: Length 67:
 Best Local Similarity 100.0%: Pred. No. 48:
 Matches 21: Conservative 0: Mismatches 0: Indels 0: Gaps 0:
 OY 570 atatttcaaaaaaaaaa 590
 DB 32 atatttcaaaaaaaaaa 52

RESULT 15
 AAO74410
 ID AAO74410 standard: DNA: 679 BP.
 XX

AC AAO74410:
 XX 12-JUN-1995 (first entry)
 XX
 XX Lipid transfer protein coding sequence.
 DE
 XX Lipid transfer protein: membrane; liposome; drug carrier; ss.
 KM
 XX Spinacia oleracea L.
 OS
 XX JF06247995-A.
 PM
 XX 06-SEP-1994.
 PD
 XX 24-FEB-1993: 93JP-0035821.
 PF
 XX 24-FEB-1993: 93JP-0035821.
 PR
 XX (NISR) JAPAN TOBACCO INC.
 PA
 XX WPI: 1994-323184/40.
 DR
 XX F-PSDB: A0653755.
 XX
 XX New lipid transfer protein and its gene - useful for changing the
 PT composition of lipid membranes
 PT
 XX
 XX Claim 2: Page 2: 10pp: Japanese.
 PS
 XX The lipid transfer protein encoded by this sequence may be used to
 CC alter the composition of lipid membranes. The lipid transfer
 CC protein may also be used to alter the composition of liposomes for use as drug
 CC carriers and new plants which have cells with altered membranes.
 XX
 XX Sequence 679 BP: 167 A: 134 C: 155 G: 223 T: 0 other:
 SO

Query Match 3.6%: Score 21: DB 15: Length 679:
 Best Local Similarity 100.0%: Pred. No. 35:
 Matches 21: Conservative 0: Mismatches 0: Indels 0: Gaps 0:
 OY 570 atatttcaaaaaaaaaa 590
 DB 656 atatttcaaaaaaaaaa 676

RESULT 15
 AAV59132
 ID AAV59132 standard: DNA: 959 BP.
 XX
 XX AAV59132:
 AC
 XX 07-JAN-1999 (first entry)
 DT
 XX
 XX Nucleotide sequence of murine HELA2.
 DE
 XX
 XX Serine protease; regulation; cell activity; viability; HELA2; ATC2;
 KM BCM03; testis; fertility; suppressor; testicular germ cell cancer;
 KM seminoma; testis-specific expression; antitumor; sperm development;
 KM Infection; mouse; ss.
 XX
 XX kus SP.
 OS
 XX
 XX Key Location/Qualifiers
 FT 2..859 /*tag= a
 FT CDS /product= HELA2
 XX
 XX W09816054-A1.
 PM
 XX 20-AUG-1999.
 PD
 XX 13-FEB-1998: 58MO-AU00085.
 TF
 XX

Matches 21: Conservative 0: Mismatches 0: Indels 0: Gaps 0:

QY 570 attttaaaaaaaaaaaaaa 590
DB 1144 attttaaaaaaaaaaaaaa 1164

RESULT 20

AACT8079
ID AACT8079 standard: cDNA: 1279 BP.

AACT8079:

08-FEB-2001 (first entry)

Human cancer associated gene sequence SEQ ID NO:473.

Human cancer associated gene: cancer antigen: detection: cancer:
diagnosis: cytotoxic: proliferative: angiogenic: metastatic:
antiinflammatory: antidiabetic: antihemorrhagic: antibacterial: cardiatic:
dermatological: neuroprotective: thrombolytic: coagulant: neotrophic:
vasoregulatory: antiproliferative: antineoplastic: gene therapy: inflammation:
immune disorder: haematopoietic cell disorder: autoimmune disorder:
allergic reaction: graft versus host disease: organ rejection:
haemostatic: thrombolytic: cardiovascular disorder: infection:
neurological disease: drug screening: ss.

Homo sapiens.

MO200055350-A1.

21-SEP-2000.

08-MAR-2000: 2000MO-US05882.

12-MAR-1999: 99US-0124270.

(HUMAN) HUMAN GENOME SCI INC.

Rosen CA, Rubin SM:

MP1: 2000-58733/55.

P-PSDB: AAB43870.

Novel isolated nucleic acids comprising sequences encoding peptides
useful for treating or diagnosing e.g. cancer.

Claim 1: Page 1008: 2352bp. English.

AACT7607 to AACT8448 encode the human cancer associated proteins of
in AAB43398 to AAB44239. The proteins can have activities based on the
tissues and cells the genes are expressed in. Example of activities
include: cytotoxic: proliferative: vulnereary: immunomodulatory:
antidiabetic: antihemorrhagic: antineoplastic: antibacterial:
dermatological: neuroprotective: cardiatic: thrombolytic: coagulant:
vasoregulatory: antiproliferative: antineoplastic: gene therapy:
polymorphous: antiproliferative: antineoplastic: gene therapy:
ameliorating medical conditions and diseases: agonists and antagonists
the present invention may be used to treat immune disorders by activating
or inhibiting the proliferation, differentiation or mobilisation of
immune cells, to treat disorders of haematopoietic cells, autoimmune
disorders, allergic reactions, graft versus host disease and organ
rejection, modulate haemostatic or thrombolytic activity, modulate
inflammation, cancers, cardiovascular disorders, neurological disease and
bacterial or viral infections. The peptides, nucleotides, antibodies, or
AAC78457 and AAC8420 represent sequences used in the exemplification of
the present invention.

Sequence 1279 BP: 421 A: 226 C: 293 G: 337 T: 2 other:

Query Match 3.6% Score 21: DB 21: Length 1279:
Best local similarity 100.0%: Pred. No. 32:
Matches 21: Conservative 0: Mismatches 0: Indels 0: Gaps 0:

QY 570 attttaaaaaaaaaaaaaa 590
DB 1222 attttaaaaaaaaaaaaaa 1242

RESULT 21

AAH34582
ID AAH34582 standard: cDNA: 1279 BP.

AAH34582:

03-SEP-2001 (first entry)

Human colon cancer antigen encoding cDNA SEQ ID NO:1664.

Human colon cancer: colon cancer antigen: diagnosis: detection:
colorectal carcinoma: chromosome 14: ss.

Homo sapiens.

MO200122920-A2.

05-APR-2001.

28-SEP-2000: 2000MO-US24521.

29-SEP-1999: 99US-0157137.

03-MAR-1999: 99US-0163280.

(HUMAN) HUMAN GENOME SCI INC.

Rubin SM, Barash SC, Birse CE, Rosen CA:

MP1: 2001-23535/24.

P-PSDB: AAG75177.

Nucleic acids encoding 427 human colon cancer-associated polypeptides,
useful for preventing, diagnosing and/or treating colorectal cancers.

Claim 1: Page 3271: 9803bp. English.

AAH37113 to AAH37195 and AAG73514 to AAG77788 represent human colon
cancer-associated nucleic acid molecules (N) and proteins (P), where
the proteins are collectively known as colon cancer antigens. The colon
cancer antigens have cytotoxic activity and can be used in gene
therapy, vaccine production, N and P may be used in the prevention,
diagnosis and treatment of colorectal cancer. N and P may be used to
expression, for example, N and P may be used to treat colorectal
cancer associated with decreased expression by rectifying mutations or deletions
in a patient's genome that affect the activity of P by expressing P.
Alternatively, N may be used to supplement the patient's own production of P.
Additionally, N may be used to produce the colon cancer-associated P,
by inserting the nucleic acids into a host cell and culturing the cell
and subsequent expression of the nucleic acids in the prevention, diagnosis
and treatment of colorectal carcinomas and cancers. AAH37196 to AAH37204
and AAG77789 to AAG77800 represent sequences used in the exemplification of the
present invention.

Sequence 1279 BP: 421 A: 226 C: 294 G: 337 T: 1 other:

Query Match 3.6% Score 21: DB 22: Length 1279:
Best local similarity 100.0%: Pred. No. 32:
Matches 21: Conservative 0: Mismatches 0: Indels 0: Gaps 0:

OY 570 atattcaaaaaaaaaa 590
 |||||||
 Db 1222 atattcaaaaaaaaaa 1242

RESULT 22

AAV53733 standard: cDNA: 1302 BP.

AAV537380:

XX 27-SEP-1996 (first entry)
 XX DNA encoding endothelial cell protein receptor.
 XX EPCR: endothelial cell protein C receptor; activated protein C;
 XX blood coagulation; inflammatory response; inhibit; ss.

XX Homo sapiens.

XX Key Location/Qualifiers

XX CDS 25..741
 XX /tag- a
 XX /product- endothelial_cell_protein_receptor

XX sig_peptide 25..69 b

XX mal_peptide 70..718 b

XX /tag- c 1267..1272

XX polyA_signal /tag- d

XX MO9505303-A1.

XX 22-FEB-1996.

XX 09-AUG-1995: 95KW-US02635.

XX 12-AUG-1994: 94US-0289599.

XX (OKLA-) OKLAHOMA MEDICAL RES FOUND.

XX (OKLA-) OKLAHOMA MED RES FOUND.

XX Eamon CT, Foxudone K;

XX MPI: 1996-139609/14.

XX P-PSDB: AAB01453.

XX PT Isolated endothelial cell protein C/activated protein C receptor -
 XX used to inhibit inflammatory responses, screen for cpds. which alter
 XX receptor binding and, by blocking receptor binding, enhance
 XX inflammatory response

XX Claim 1: Page 37-38; 58pp; English.

XX The present sequence encodes an endothelial cell protein C/activated
 XX protein C receptor (EPCR) a type I transmembrane glycoprotein. The
 XX protein binds with high affinity to both protein C (which plays a
 XX major role in blood coagulation) and activated protein C (Va-30 nm)
 XX and is calcium dependent. It is a member of the CD14/CD15 superfamily
 XX and has a role in regulating the inflammatory response.

XX Sequence 1302 BP: 340 A; 325 G; 341 G; 295 T; 0 other:

Query Match 3.54; Score 21; DB 17; Length 1302;

Best Local Similarity 100.0%; Pred. No. 32;

OY 570 atattcaaaaaaaaaa 590
 |||||||
 Db 1279 atattcaaaaaaaaaa 1299

RESULT 23
 AAV53733
 ID AAV53733 standard: cDNA: 1302 BP.

AAV53733:

XX 20-NOV-1996 (first entry)

XX Nucleotide sequence of the endothelial cell protein receptor.

XX Human: endothelial cell protein receptor; inflammation; regulation;
 XX endothelial protein C receptor; EPCR; coagulation state; diabetes;
 XX major vascular condition; autoimmune disease; pre-eclampsia;
 XX cardiopulmonary bypass; unstable angina; restenosis; angioplasty;
 XX kidney disease; liver disease; ss.

XX Homo sapiens.

XX Key Location/Qualifiers

XX CDS 25..741
 XX /tag- a
 XX /product- "EPCR protein"

XX US5804392-A

XX 09-SEP-1996

XX 27-JUN-1996: 97US-0881203.

XX 27-JUN-1996: 97US-0881203.

XX (OKLA-) OKLAHOMA MEDICAL RES FOUND.

XX Eamon CT, Futosawa S, Shirasawa K, Hirosewa DJ;

XX MPI: 1998-55645/43.

XX P-PSDB: AAK-1415.

XX PT Immuno-based detection of protein C receptor - useful in the
 XX diagnosis of inflammatory and coagulation states and disorders
 XX associated with damage to endothelium and large blood vessel disease

XX Disclosure: Volume 21-22; 2pp; English.

XX This is the nucleotide sequence of the human endothelial cell protein
 XX receptor, used in the method of the invention where endothelial protein
 XX C receptors (EPCR) is used in diagnosis of inflammatory and coagulation
 XX states and disorders associated with damage to endothelium and large
 XX blood vessel disease. EPCR is involved in the regulation of a host
 XX response to inflammation. The protein is one of the last components
 XX to be activated in the coagulation system, and is thought to control
 XX coagulation and inflammation. Activation of the protein C pathway
 XX is thought to be involved in large blood vessels, not capillaries.

XX and so is activated with for major vascular conditions, and the
 XX increased presence of the receptor in the conditions stated makes it
 XX ideal as a diagnostic component. The assay is used for the diagnosis
 XX of complications such as autoimmune diseases, pre-eclampsia, diabetes,
 XX vascular disease (especially cardiopulmonary bypass, unstable angina,
 XX restenosis and angioplasty), kidney disease and liver disease.

XX Sequence 1302 BP: 340 A; 325 G; 341 G; 296 T; 0 other:

Query Match 3.54; Score 21; DB 19; Length 1302;

Best Local Similarity 100.0%; Pred. No. 32;

OY 570 atattcaaaaaaaaaa 590
 |||||||
 Db 1279 atattcaaaaaaaaaa 1299

protein can have activities based on the tissues and cells the gene are expressed in. Examples of activities include: cytostatic; immunosuppressive; antiinflammatory; neurotrophic; neuroprotective; anti-angiogenic; the polynucleotides and their corresponding secreted proteins are useful for preventing, treating or alleviating medical conditions e.g. cancer. Gene therapy. Also polynucleotides can be used for determining the presence of mutations or polynucleotides in a sample or by determining the presence of mutations or polynucleotides in a polynucleotide. Human secreted protein s and their polynucleotides can be used for developing products for the diagnosis or treatment of cancer, tumours, neurodegenerative disorders, developmental abnormalities and foetal deficiencies, blood disorders, diseases of the immune system, autoimmune diseases, hepatic and renal disease, inflammation, osteoporosis, osteoarthritis, infections, AIDS, spinal cord injuries, transplant rejection, diabetes, sepsis, acne, psoriasis, cardiovascular disorders, reproductive disorders, rheumatoid arthritis, disorders, respiratory disorders and metabolic disorders. Polynucleotides or polynucleotides can also be used as food additives or preservatives. The proteins are also useful for food additives or binding partners. AA98008 to AA28016 and AA87063 are sequences used in the exemplification of the present invention.

Sequence 1373 BP: 325 A: 329 C: 361 G: 358 T: 0 other:

Query Match 3.54: Score 21: DP 21: Length 1373:
Best Local Similarity 100.0%: Pctd. No. 32:

Matches 21: Conservative 0: Mismatches 0: Indels 0: Gaps 0:

570 attctcaaaaaaaaaaaaaa 590

Db 1349 attctcaaaaaaaaaaaaaa 1353

RESULT 26

AA01699 standard: cDNA: 1373 BP.

AA01699:

21-SEP-2001 (first entry)

Human secreted protein-encoding gene 60 cDNA clone H10512, SEQ ID NO:170.

Human: secreted protein; proliferative disorder; cancer; breast; breast; foetal abnormality; developmental abnormality; haematopoietic disorder; immune system disorder; AIDS; autoimmune disease; rheumatoid arthritis; Parkinson's disease; cognitive disorder; schizophrenia; skin disorder; psoriasis; sepsis; diabetes; atherosclerosis; cardiovascular disorder; inflammation; neurological disorder; Alzheimer's disease; foot ailment; pregnancy-related disorder; infectious disease; gastrointestinal disorder; allergy; cell culture; chemotaxis; viraemia; infection; wound healing; gene therapy; ss.

Human sapiens.

Key 213..401 Location/Qualifiers

CD5 /tag: a Human secreted protein precursor

sig_peptide /tag: b

mat_peptide /tag: c

Product: Mature human secreted protein

W020015104-A1.

19-JUL-2001.

12-JAN-2001: 2001WO-US00311.

13-JAN-2000: 2000US-0482273.

(HUMAN) HUMAN GENE SC1 INC

Pdhen SM, Katsoulis GA, Tuan FB, Rosen CA, Moore PA, Shi Y, Laffey DR, Olsen HS, Freter LA, Florence KA, Young FE, Soppet DR, Endress GA, Myscinski M, Finor E

W01-2001-028845/45.

F-TEPR: AA01699.

Isolated nucleic acid molecule encoding a human secreted protein is used in preventing, treating or alleviating a medical condition

used in preventing, treating or alleviating a medical condition

Claim 1: Page 713-714: 864p: English.

AA01699-20011721 represent cDNAs corresponding to 71 human secreted protein genes, and AA01699-20011722 represent the proteins they encode.

AA01699-20011723 represent human secreted protein transcripts.

AA01699-20011724 and AA01699-20011725 represent the amount of the new protein in a sample or by determining the presence of mutations in

CC based on the tissues in which they are most highly expressed, and include

CC developing products for the diagnosis or treatment of proliferative

CC disorders, cancer, tumours, foetal and developmental abnormalities,

CC haematopoietic disorders, diseases of the immune system, AIDS, autoimmune

CC rheumatoid arthritis), inflammation, allergies,

CC neurological disorders, schizophrenia, Parkinson's disease, Parkinson's disease,

CC psoriasis), sepsis, diabetes, atherosclerosis, cardiovascular disorders,

CC pregnancy-related disorders, endocrine disorders, and infections. The

CC proteins can also be used to aid wound healing and epithelial cell

CC proliferation, to prevent skin aging due to sunburn, to maintain organs

CC before transplantation, for supporting cell culture of primary tissues,

CC to regenerate tissues, to identify their cognate ligands or binding

CC proteins, to identify their cognate ligands or binding partners, to be used for a

CC protein of the invention can be used in alleviating immunosuppression

CC with the disorders mentioned above, and in diagnostic immunosuppressive

CC radioimmunoassay or enzyme-linked immunosorbent assay (ELISA) assays

CC the invention.

Sequence 1373 BP: 325 A: 329 C: 361 G: 358 T: 0 other:

Query Match 3.54: Score 21: DP 21: Length 1373:
Best Local Similarity 100.0%: Pctd. No. 32:

Matches 21: Conservative 0: Mismatches 0: Indels 0: Gaps 0:

570 attctcaaaaaaaaaaaaaa 590

Db 1349 attctcaaaaaaaaaaaaaa 1353

AA01699 standard: cDNA: 1373 BP.

AA01699:

21-SEP-2001 (first entry)

Human secreted protein-encoding gene 60 cDNA clone H10512, SEQ ID NO:170.

Human: secreted protein; proliferative disorder; cancer; breast; breast; foetal abnormality; developmental abnormality; haematopoietic disorder; immune system disorder; AIDS; autoimmune disease; rheumatoid arthritis; Parkinson's disease; cognitive disorder; schizophrenia; skin disorder; psoriasis; sepsis; diabetes; atherosclerosis; cardiovascular disorder; inflammation; neurological disorder; Alzheimer's disease; foot ailment; pregnancy-related disorder; infectious disease; gastrointestinal disorder; allergy; cell culture; chemotaxis; viraemia; infection; wound healing; gene therapy; ss.

Human sapiens.

Key 213..401 Location/Qualifiers

CD5 /tag: a Human secreted protein precursor

sig_peptide /tag: b

mat_peptide /tag: c

Product: Mature human secreted protein

W020015104-A1.

19-JUL-2001.

12-JAN-2001: 2001WO-US00311.

[illegible]

PF	08-NOV-2000:	200CNO-05S0629.	
XX	12-NOV-1999:	99US-0154825.	
XX	03-AUG-2000:	2000US-0222904.	
PR	(HUMAN) HUMAN GENOME SCI INC.		
XX			
PI	Rubén SM, Komatsu-Gil GA, Soppet TR, Shi Y:		
DR	WPI: 2001-27441/39.		
XX	P-PSDB: AAE0150.		
XX			
XX	Nucleic acids encoding 24 human secreted polypeptides, useful for		
PI	preventing, diagnosing and/or treating e.g. cancer's disease,		
PI	diabetes mellitus and multiple sclerosis.		
XX			
XX	Claim 1: Page 459-460: 532pp: English.		
CC	AA008401-AA008472 represent cDNAs corresponding to 24 human secreted		
CC	protein genes, and AAE00100-AAE00170 represent the proteins they encode.		
CC	AA001172-AA001197 represent human-secreted protein fragments or variants.		
CC	The secreted proteins and their genes are useful for preventing, treating		
CC	or ameliorating medical conditions, e.g., by protein or gene therapy.		
CC	or biological conditions can be diagnosed by determining the amount of the		
CC	new genes. Specific uses are described for each of the 24 genes, in		
CC	based on the tissues in which they are most highly expressed, and include		
CC	developing products for the diagnosis or treatment of proliferative		
CC	disorders, cancer, tumours, foetal and developmental abnormalities,		
CC	haematopoietic disorders, diseases of the immune system, AIDS, autoimmune		
CC	diseases (e.g., rheumatoid arthritis), inflammation, allergies,		
CC	neurological disorders (e.g., Alzheimer's disease, Parkinson's disease),		
CC	cognitive disorders (schizophrenia, asthma, skin disorders (e.g.,		
CC	psoriasis), diabetes, fibrocystic disease, cardiovascular disorders,		
CC	pregnancy-related disorders, endocrine disorders and infections. The		
CC	proteins can also be used to aid wound healing and epithelial cell		
CC	proliferation, to prevent skin aging due to sunburn, to maintain organs		
CC	before transplantation, for supporting cell culture of primary tissues,		
CC	to regenerate tissues, to identify their cognate ligands or binding		
CC	partners, and in chemokines, and can be used as a food additive or		
CC	preservative to modify storage properties. Antibodies specific for a		
CC	protein of the invention can be used in alleviating symptoms associated		
CC	with the disease, e.g., in the treatment of cancer, diabetes, e.g.,		
CC	radioimmunoassay or enzyme-linked immunosorbent assay (ELISA).		
CC	The present sequence represents a human secreted protein-encoding cDNA of		
CC	the invention.		
XX			
XX	Sequence 1549 BP: 411 A: 302 C: 305 G: 529 T: 1 other:		
XX			
XX	Query Match	3.68: Score 21: DB 22: Length 1549:	
XX	Best Local Similarity: 100.0%: Pred. No. 31:		
XX	Matches 21: Mismatches 0: Indels 0: Gaps 0		
XX	570 atattctaaaaaaaaaaaaa 590		
XX			
XX	1513 atattctaaaaaaaaaaaaa 1533		
XX			
XX	RESULT 29		
XX	AA0085984 standard: cDNA to mRNA: 1624 BP:		
XX	AA0085984 standard: cDNA to mRNA: 1624 BP:		
XX	AA0085984:		
XX	12-OCT-1995 (first entry)		
XX	Orf72 salivae PFEK-CSI gene.		
XX	ATP-dependent fructose-6-phosphate 1-phosphotransferase enzyme: plant:		

Accession	Gene Name	Location/Qualifiers
FM001	Polato: Solanum tuberosum	1:1412
FM002	Raphanus sativus	/tag_a
FM003	Agrobacterium tumefaciens	/product_c fructose-6-phosphate 1-phosphotransferase
FM004	Oryza sativa	390..392
FM005		/tag_b
FM006		/transl_except seq: AAT, a.a.116
FM007	MO505457-A.	
FM008	23-FEB-1995.	
FM009	16-AUG-1994:	94WD-JP01352.
FM010	19-AUG-1993:	93JP-0226454.
FM011	(M15B) JAPAN TOBACCO INC.	
FM012	Hiyoshi T., Kasaka K., Mine T., Page M.A., Tyson HP:	
FM013	WPI: 1995-098757/13.	
FM014	P-PSDB: AAF71581.	
FM015	DNA coding for fructose-6-phosphate 1-phosphotransferase - of plant origin, for prodn. of transformant plant cells with altered sugar content	
FM016	Claim 8: Page 46-49; 75pp: Japanese.	
FM017	The sequences (AA085982-6) represent the genes encoding a novel ATP-dependent fructose-6-phosphate 1-phosphotransferase enzyme (EC 2.7.1.11: PFK) from a range of plants. This is the sequence of the Oryza sativa (rice) gene, pPFK-OS1, as given in the specification.	
FM018	CC Plants transformed with these genes can express the enzyme. The transformed plants can produce varieties that have altered sugar content on storage at low temperatures.	
FM019	Sequence 1624 BP: 480 A: 302 C: 406 G: 435 T: 0 other:	
FM020	Query Match 3.6% Score 21: DB 16: Length 1624: Best Local Similarity 100.0%: Prid. No. 31:	
FM021	Matches 21: Conservative 0: Mismatches 0: Indels 0: Gaps 0:	
FM022	570 atattataaaaaaaaaaaaaa 590	
FM023	iiiiiiiiiiiiiiiiii	
FM024	Db 1600 attattataaaaaaaaaaaaaa 1620	
FM025	RESULT 30	
FM026	AA158747	
FM027	ID AA158747 standard: cDNA: 1753 BP.	
FM028	AA158747:	
FM029	22-OCT-2001 (first entry)	
FM030	Human polynucleotide SEQ ID NO 950.	
FM031	Human: neotrophic; immunosuppressant; cytostatic; gene therapy: CNS: ret: peripheral nervous system; neuropathy: central nervous system: CNS: Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic: amyotrophic lateral sclerosis; Shy-Drager Syndrome; rheumatic: chemokine1; ss.	
FM032	leukemia1; ss.	
FM033	Bromo sapiens.	

[illegible]

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FH Key      Location/Qualifiers
FT CDS      13..1779
FT /tag="a" /product="alpha-glucosidase"
XX JP2001136986-A.
XX
XX 22-MAY-2001.
XX
XX 01-SEP-2000: 2000JP-0265070.
XX
XX 01-SEP-1999: 99JP-0246862.
XX
XX (MISO) NIPPON SHOKUHIN KAKO KK.
XX
XX WPI: 2001-460212/50.
XX
XX P-PSDB: AAG64875.
XX
XX
XX Apls mellifera alpha-glucosidase gene
XX
XX Claim 2: Page 6-9; 11pp: Japanese.
XX
XX The present invention provides the protein and coding sequences of the
XX honeybee alpha-glucosidase gene can be used for the preparation of
XX Apls mellifera alpha-glucosidase I, the present sequence is the coding
XX sequence of the invention.
XX
XX Sequence 1994 BP: 753 A: 310 C: 357 G: 574 T: 0 other:

Query Match      3.64: Score 21: DB 22: Length 1994:
Best Local Similarity 100.0%: Pred. No. 30:
Matches 21: Conservative 0: Mismatches 0: Indels 0: Gaps 0:
OY 570 atatttataaaataaaataaa 590
DB 1915 atatttataaaataaaataaa 1915

RESULT 32
AA233647
XX AA233647 standard: cDNA: 2281 BP.
XX
XX AA233647:
XX
XX 08-DEC-1999 (first entry)
XX
XX Human breast tumour-associated EST 37.
XX
XX Expressed sequence tag: EST; human; breast: cancer: gene therapy:
XX treatment: tumour: cytostatic: medicament: ss.
XX
XX Homo sapiens.
XX
XX DE19813839-AI.
XX
XX 23-SEP-1999.
XX
XX 20-MAR-1998: 98DE-1013839.
XX
XX 20-MAR-1998: 98DE-1013839.
XX
XX (META-) METAGEN GES GENOMFORSCHUNG MBH.
XX
XX Specht T, Hinzmann B, Schmitt A, Pilarsky C, Dahl E, Rosenthal A:
XX WPI: 1999-528981/45.
XX
XX P-PSDB: AAY48573.
XX
XX Human nucleic acid sequences and protein products from tumor breast
XX tissue, useful for breast cancer therapy
XX
XX Claim 1a: 116-117; 188pp: German.

```

```

XX
XX This invention describes novel human nucleic acid sequences from tumor
XX breast tissue which have cytostatic activity. The nucleic acid sequences
XX can be used to produce and isolate full-length gene sequences. They can
XX be used to express proteins, which can be used as tools to find an
XX active agent against breast cancer. The sequences can be used in sense or
XX antisense form. They are especially useful for medicaments for gene
XX therapy to treat breast cancer. AA235611-248617 represents expressed
XX sequence tags described in the method of the invention.
XX
XX Sequence 2281 BP: 601 A: 498 C: 494 G: 688 T: 0 other:

Query Match      3.64: Score 21: DB 20: Length 2281:
Best Local Similarity 100.0%: Pred. No. 30:
Matches 21: Conservative 0: Mismatches 0: Indels 0: Gaps 0:
OY 570 atatttataaaataaaataaa 590
DB 2246 atatttataaaataaaataaa 2268

RESULT 33
AA090652
XX AA090652 standard: cDNA: 3133 BP.
XX
XX 11-MAY-1995 (first entry)
XX
XX Eph-related tyrosine kinase CEK6 cDNA.
XX
XX CEK6: Eph: protein tyrosine-kinase: PTK: cancer: diagnosis:
XX prognosis: ss.
XX
XX Gallus sp.
XX
XX Key      Location/Qualifiers
XX CDS      3..1179
XX FT       1..tag="a"
XX FT       421..2859
XX FT       1..tag="b"
XX
XX W09515375-A.
XX
XX 08-JUN-1995.
XX
XX 07-SEP-1994: 94MD-0510140.
XX
XX 03-DEC-1993: 93US-0162809.
XX
XX (LJOL-) LA JOLLA CANCER RES FOUND.
XX
XX Pasquale EB, Sm)ndl FG:
XX
XX WPI: 1995-215256/20.
XX
XX P-PSDB: AAR57704.
XX
XX Eph-related protein tyrosine kinases) - for monitoring and diagnosing
XX cancer.
XX
XX Disclosure: Page 37-41: 129pp: English.
XX
XX Novel Eph-related PTK CEK6 cDNA clones (AA090652) were isolated from
XX chick embryo and embryonic brain cDNA libraries in phage lambda g11.
XX The encoded CEK6 protein (AAR57704) is closely related to rat Elk,
XX CEK5 (AA053523) and CeK10 (AAR57708). CEK6 transcripts were found in
XX 10-day embryo and in adult brain, lung, heart and skeletal muscle.
XX
XX Sequence 3133 BP: 718 A: 918 C: 922 G: 575 T: 0 other:

Query Match      3.64: Score 21: DB 16: Length 3133:

```

```
Best Local Similarity 100.0%; Pred. No. 29:
Matches 21: Conservative 0: Mismatches 0: Indels 0: Gaps 0:
OY 570 atatttcaaaaaaaaaaaaaa 590
DB 3108 atatttcaaaaaaaaaaaaaa 3128

RESULT 34
AAH19355
ID AAH19355 standard: cDNA: 3831 BP.
AC AAH19355;
XX
XX 25-JUL-2001 (first entry)
XX
XX Porcine CD29 protein coding sequence.
XX
XX Porcine CD29: immunosuppressive; immunomodulatory;
XX epitope Gal-alpha-(1.3)-Gal: xenotransplantation: xenograft: ss.
XX
XX Sus scrofa.
XX
XX Key Location/Qualifiers
XX CDS 241..2537
XX /product="Porcine CD49"
XX /transcript="Porcine CD49"
XX /transcript_except="(pos:1027..1035,aa:Ser-Leu-Ile)"
XX
XX M0200125279-A1.
XX
XX 12-APR-2001.
XX
XX 04-OCT-2000: 2000MO-ES00374.
XX
XX 05-OCT-1999: 99BS-0002193.
XX
XX (BIOV-) BIOVET-UGO SL.
XX
XX Garrido Pavan JJ, Llanes Ruiz D, Babancho Medina M;
XX Jimenez Marin AM;
XX
XX WPI: 2001-273559/28.
XX P-PSDB: AAB81751.
XX
XX Porcine CD29 protein and related DNA, useful for removing xenoreactive
XX antibodies to prevent graft rejection and to prepare transgenic animals
XX useful as graft donors.
XX
XX Claim 4: Page 38-39; 46pp: Spanish.
XX
XX The present sequence is the coding sequence for porcine CD29 protein.
XX CC CD29 contains epitopes Gal-alpha-(1.3)-Gal, which are recognised by
XX xenoreactive human antibodies, leading to hyperacute rejection of
XX xenografts. The present invention relates to CD29 proteins, which have an
XX identical, reduced or zero expression of epitope Gal-alpha-(1.3)-Gal,
XX CC which is useful to induce or prevent hyperacute rejection associated
XX with xenotransplantation.
XX
XX Sequence 3831 BP: 1114 A: 703 C: 920 G: 1094 T: 0 other:

Query Match 3.5%; Score 21: DB 22: Length 3831:
Best Local Similarity 100.0%; Pred. No. 28:
Matches 21: Conservative 0: Mismatches 0: Indels 0: Gaps 0:
OY 570 atatttcaaaaaaaaaaaaaa 590
DB 3808 atatttcaaaaaaaaaaaaaa 3828

RESULT 35
AAH39681/C
```

```
ID AAH39681 standard: cDNA: 5306 BP.
XX
XX AAH39681;
XX
XX 02-JUL-1999 (first entry)
XX
XX Renal cancer associated gene.
XX
XX Cancer associated antigen: diagnosis: research: treatment: human:
XX breast cancer: colon cancer: gastric cancer: renal cancer: lung cancer:
XX prostate cancer: ss.
XX
XX Homo sapiens.
XX
XX M03904265-A2.
XX
XX 28-JAN-1999.
XX
XX 15-JUL-1998: 98MO-US14679.
XX
XX 22-JUN-1998: 98US-0102322.
XX
XX 17-JUL-1997: 97US-0856164.
XX
XX 10-OCT-1997: 97US-0061599.
XX
XX 10-OCT-1997: 97US-0061785.
XX
XX 11-OCT-1997: 97US-0948785.
XX
XX 11-OCT-1997: 97GB-0021697.
XX
XX (LUDW-) LUDWIG INST CANCER RES.
XX
XX Chen Y, Gout I, Gure A, O'Hare M, Obata Y, Old LJ;
XX Pfeundschnig M, Sahin U, Scanlan MJ, Stockert E;
XX Tureci O;
XX
XX WPI: 1999-122448/11.
XX
XX New isolated cancer associated nucleic acids and polypeptides
XX isolated using sera from cancer patients, used to develop products
XX for the diagnosis, monitoring or treatment of cancers
XX
XX Claim 67: Page 500-502; 787pp: English.
XX
XX The invention relates to a method for diagnosing a disorder characterised
XX by expression of a human cancer associated antigen precursor coded for by
XX a nucleic acid molecule (NAM). The method comprises: (a) contacting a
XX biological sample isolated from a subject with an agent, the specificity
XX of which is determined for the expression of the antigen precursor, the
XX product complexed with an RNA molecule; and (b) determining the
XX interaction between the agent and the NAM or the expression product as a
XX determination of the disorder. The products and methods can be used in
XX the diagnosis, monitoring, research, or treatment of conditions
XX characterised by the expression of various cancer associated antigens.
XX CC The invention provides nucleic acid sequences and encoded polypeptides
XX which are cancer associated antigen precursors expressed in human breast
XX cancer, renal cancer, colon cancer, gastric cancer, prostate cancer and
XX lung cancer.
XX
XX Sequence 5306 BP: 1657 A: 973 C: 1076 G: 1390 T: 0 other:

Query Match 3.5%; Score 21: DB 20: Length 5306:
Best Local Similarity 100.0%; Pred. No. 27:
Matches 21: Conservative 0: Mismatches 0: Indels 0: Gaps 0:
OY 570 atatttcaaaaaaaaaaaaaa 590
DB 1100 AATATTGAAADAAADAAADAA 1090

RESULT 36
AAN50530/C
ID AAN50530 standard: DNA: 5750 BP.
XX
XX AAN50530;
```



```

OS Synthetic.
OS Pneumocystis carinii.
XX US5912140-A.
XX 15-JUN-1999.
XX 03-APR-1995: 95US-0415593.
XX 03-APR-1995: 95US-0415593.
XX (CUBIST PHARM INC.
XX Politis-Vilk KI, Quinn CL, Schimmel PR, Tao N, Whoriskey SK:
XX WPI: 1999-357196/30.
XX Nucleic acids encoding Pneumocystis carinii aminoacyl-tRNA
XX synthetase enzymes useful for detecting similar sequences in samples
XX and in the study and treatment of pneumonia in Acquired Immune
XX Deficiency Syndrome patients
XX Example 17: Column 47: 56pp: English.
XX The present invention describes Pneumocystis carinii (P. carinii)
XX aminoacyl-tRNA synthetase enzymes. The nucleic acids encoding aminoacyl-
XX tRNA synthetase enzymes may be used to produce expression vectors and
XX host cells for the recombinant production of Pneumocystis aminoacyl-tRNA
XX synthetases. The proteins may then be used in other procedures such as
XX separating amino acids from samples or as antigens in the production of
XX antibodies. The nucleic acids may also be used to produce tester cell
XX strains (which contain the nucleic acids) which may be used to test
XX candidate drugs (e.g. tRNA synthetase inhibitors) for the treatment of
XX disorder associated with P. carinii such as pneumonia which is a common
XX complication for Acquired Immune Deficiency Syndrome (AIDS) patients and
XX other immuno-compromised individuals. Additionally, they may also be
XX used to detect and isolate related DNAs in sample (i.e. they can be used
XX as probes). The present sequence represents a PCR primer for a
XX Pneumocystis aminoacyl-tRNA synthetase, used in an example from the
XX present invention.
XX Sequence 35 BP: 7 A: 5 C: 2 G: 21 T: 0 other:
XX
XX Query Match 3.4%: Score 20: DB 20: Length 35:
XX Best Local Similarity 100.0%: Pred. No. 1.2e+02:
XX Matches 20: Conservative 0: Mismatches 0: Indels 0: Gaps 0:
XX
XX GY 571 tattcaaaaaaaaaaaaaa 590
XX 30 TATTTAAAAAAAAAAAAAAA 11
XX
XX RESULT 39
XX AA76360/C
XX ID AA76360 standard: DNA: 40 BP.
XX AC AA76360:
XX XX
XX XX 05-AUG-1999 (first entry)
XX DE Pneumocystis carinii lysyl-tRNA synthetase PCR primer 33.
XX XX
XX XX Pneumocystis carinii: lysyl-tRNA synthetase; tyrosyl-tRNA synthetase;
XX XX aminoacyl-tRNA synthetase; pneumonia: AIDS: immuno-compromised:
XX XX Acquired Immune Deficiency Syndrome: detection: PCR primer: ss.
XX XX
XX XX Synthetic.
XX OS Pneumocystis carinii.
XX OS US5912140-A.
XX XX
XX XX 15-JUN-1999.

```

```

XX 03-APR-1995: 95US-0415593.
XX 03-APR-1995: 95US-0415593.
XX (CUBIST PHARM INC.
XX Politis-Vilk KI, Quinn CL, Schimmel PR, Tao N, Whoriskey SK:
XX WPI: 1999-357196/30.
XX Nucleic acids encoding Pneumocystis carinii aminoacyl-tRNA
XX synthetase enzymes useful for detecting similar sequences in samples
XX and in the study and treatment of pneumonia in Acquired Immune
XX Deficiency Syndrome patients
XX Example 16: Column 44: 56pp: English.
XX The present invention describes Pneumocystis carinii (P. carinii)
XX aminoacyl-tRNA synthetase enzymes. The nucleic acids encoding aminoacyl-
XX tRNA synthetase enzymes may be used to produce expression vectors and
XX host cells for the recombinant production of Pneumocystis aminoacyl-tRNA
XX synthetases. The proteins may then be used in other procedures such as
XX separating amino acids from samples or as antigens in the production of
XX antibodies. The nucleic acids may also be used to produce tester cell
XX strains (which contain the nucleic acids) which may be used to test
XX candidate drugs (e.g. tRNA synthetase inhibitors) for the treatment of
XX disorder associated with P. carinii such as pneumonia which is a common
XX complication for Acquired Immune Deficiency Syndrome (AIDS) patients and
XX other immuno-compromised individuals. Additionally, they may also be
XX used to detect and isolate related DNAs in sample (i.e. they can be used
XX as probes). The present sequence represents a PCR primer for a
XX Pneumocystis aminoacyl-tRNA synthetase, used in an example from the
XX present invention.
XX Sequence 40 BP: 8 A: 6 C: 4 G: 22 T: 0 other:
XX
XX Query Match 3.4%: Score 20: DB 20: Length 40:
XX Best Local Similarity 100.0%: Pred. No. 1.2e+02:
XX Matches 20: Conservative 0: Mismatches 0: Indels 0: Gaps 0:
XX
XX GY 571 tattcaaaaaaaaaaaaaa 590
XX 35 TATTTAAAAAAAAAAAAAAA 15
XX
XX RESULT 40
XX AA17027/C
XX ID AA17027 standard: DNA: 42 BP.
XX AC AA17027:
XX XX
XX XX 04-OCT-1996 (first entry)
XX DE Human mitochondrial DNA heavy chain primer H16070.
XX XX
XX XX Human: mitochondrial DNA: heavy chain: primer: polymorphism:
XX XX identification: discrete single nucleotide bases: method: screen:
XX XX genetic disease: DNA typing: forensic testing: microorganisms: ss.
XX XX
XX XX Homo sapiens.
XX XX
XX XX Key Location/Qualifiers
XX XX misc_feature 1..17
XX FT /note="5'-polyT tail, opt. polyA"
XX FT
XX XX
XX XX NC9506187-A1.
XX XX
XX XX 29-FEB-1996.
XX XX
XX XX 21-AUG-1995: 95MO-GR01987.

```


Wed May 1 07:51:09 2002

us-09-248-178-63.ring

Page 1

GenBank version 4.5
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OM nucleic - nucleic search, using sw model

Run on: April 30, 2002, 10:54:22; Search time 723.83 Seconds

(without alignments)
189,231 Million cell updates/sec

Title: US-09-248-178-63

Perfect score: 1075
Sequence: 1 aTcccagagacataatc.....agctagtagaacacaccc 1075

Scoring table:
Gapop 60.0, Gapext 60.0

Searched: 930621 seqs, 428662615 residues

Word size: 10

Total number of hits satisfying chosen parameters: 420874

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database:

1: N-Genes, 1101
2: /SIDSI/3cgcdata/geneseq/NA1580.DAT
3: /SIDSI/3cgcdata/geneseq/NA1581.DAT
4: /SIDSI/3cgcdata/geneseq/NA1582.DAT
5: /SIDSI/3cgcdata/geneseq/NA1583.DAT
6: /SIDSI/3cgcdata/geneseq/NA1585.DAT
7: /SIDSI/3cgcdata/geneseq/NA1586.DAT
8: /SIDSI/3cgcdata/geneseq/NA1587.DAT
9: /SIDSI/3cgcdata/geneseq/NA1588.DAT
10: /SIDSI/3cgcdata/geneseq/NA1589.DAT
11: /SIDSI/3cgcdata/geneseq/NA1590.DAT
12: /SIDSI/3cgcdata/geneseq/NA1592.DAT
13: /SIDSI/3cgcdata/geneseq/NA1593.DAT
14: /SIDSI/3cgcdata/geneseq/NA1594.DAT
15: /SIDSI/3cgcdata/geneseq/NA1595.DAT
16: /SIDSI/3cgcdata/geneseq/NA1596.DAT
17: /SIDSI/3cgcdata/geneseq/NA1597.DAT
18: /SIDSI/3cgcdata/geneseq/NA1598.DAT
19: /SIDSI/3cgcdata/geneseq/NA1599.DAT
20: /SIDSI/3cgcdata/geneseq/NA1600.DAT
21: /SIDSI/3cgcdata/geneseq/NA2001.DAT
22: /SIDSI/3cgcdata/geneseq/NA2001.DAT

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Length	DB ID	Description
1	1079	100.0	1075	20 AA84236
2	1079	100.0	1079	21 AA75438
3	959	88.9	1948	22 AA158957
4	959	88.9	1958	22 AA160783
5	908	84.2	1920	21 AA247118
6	908	84.2	2499	20 AA238153
7	799	74.1	1898	22 AA151146
8	501	46.4	1296	21 AAC98160
9	209	19.4	752	22 AA108073
10	94	8.7	444	22 AA115311
11	94	8.7	691	22 AA124484

C	12	60	7.4	483	20	AA84050	Human secreted pro
C	13	47	4.4	47	21	AA26656	Human map-related
C	14	45	4.2	575	22	AAH13035	Human CDNA clone (
C	15	36	3.3	1312	21	AA247119	Mouse CD40 recepto
C	16	21	1.9	417	22	AAH33140	Human colon cancer
C	17	21	1.9	5232	19	AAV55038	Human XIAP coding
C	18	20	1.9	237	21	AAH31359	Human secreted pro
C	19	20	1.9	377	21	AAH34458	Arabidopsis thaliana
C	20	19	1.9	305	21	AAH27645	Human secreted pro
C	21	19	1.8	338	22	AAH69026	Human Diarrhetic ac
C	22	19	1.8	351	22	AAH71866	Human cervical can
C	23	19	1.8	454	22	AAH70685	Human cervical can
C	24	19	1.8	454	22	AAH72662	Human secreted pro
C	25	19	1.8	861	20	AAH22252	Human secreted pro
C	26	19	1.8	1864	8	AAH71405	Sequence of ANS-1
C	27	19	1.8	1864	15	AAH78882	Aspergillus nidula
C	28	19	1.8	2438	22	AAH25255	Kat 12602 nucleoti
C	29	19	1.8	2303	22	AAH13252	Human secreted pro
C	30	19	1.8	4505	20	AAH31374	Enterococcus faec
C	31	19	1.7	1281	22	AAH31374	Human colon cancer
C	32	19	1.7	1361	20	AAH20570	Human IL-1ra BAC c
C	33	19	1.7	1569	21	AAH22655	Human ORF ORF1317
C	34	18	1.7	1752	13	AAH23258	Sequence encoding
C	35	18	1.7	1923	13	AAH18038	Mitochondrial NAD(
C	36	18	1.7	2033	21	AAH18038	Lung cancer associ
C	37	18	1.7	3060	12	AAH13822	Human GAP B3 gene
C	38	18	1.7	4636	19	AAH23920	Human alpha3 integ
C	39	18	1.7	4108	21	AAH68247	Bacteriophage T4 c
C	40	18	1.7	4108	21	AAH68247	Human secreted pro
C	41	19	1.6	212	21	AAH31204	Human secreted pro
C	42	19	1.6	314	21	AAH10555	Human secreted pro
C	43	17	1.6	329	22	AAH71566	Human cervical ca
C	44	17	1.6	329	22	AAH71566	Human cervical ca
C	45	17	1.6	356	21	AAH54548	Arabidopsis thaliana

ALIGNMENTS

RESULT 1
AAH84236 standard; CUNA: 1075 BP.

AAH84236:

AAH84236: (first entry)

US-SEP-1995 (first entry)

US-SEP-1995 (first entry)

US-SEP-1995 (first entry)

US-SEP-1995 (first entry)

US-SEP-1995 (first entry)

US-SEP-1995 (first entry)

US-SEP-1995 (first entry)

US-SEP-1995 (first entry)

US-SEP-1995 (first entry)

US-SEP-1995 (first entry)

US-SEP-1995 (first entry)

US-SEP-1995 (first entry)

US-SEP-1995 (first entry)

US-SEP-1995 (first entry)

US-SEP-1995 (first entry)

US-SEP-1995 (first entry)

[illegible]

4
 AA150763 Standard: CCM: 1956 BP.
 AA160763:
 42-OCT-2001 (first entry)
 human polynucleotide SEQ ID NO 4772.
 human: nocitropic; immunosuppressant; cytostatic; gene therapy; cancer; peripheral nervous system; neuropathy; central disease; hematostatic; Alzheimer's disease; lateral sclerosis; Shy-Drager Syndrome; chemoclastic; Streptokinase; thromolytic; drug screening; arthritis; inflammation; leukemia; ss.
 Hemo septens.
 h050015312-A1.
 45-JUL-2001.
 26-DEC-2000: 2000NW-US4263.
 31-JAN-2000: 2000US-0486725.
 25-APR-2000: 2000US-0552317.
 05-JUL-2000: 2000US-0558042.
 19-JUL-2000: 2000US-0620312.
 03-AUG-2000: 2000US-0653450.
 14-SEP-2000: 2000US-0662151.
 19-OCT-2000: 2000US-0722346.
 29-NOV-2000: 2000US-0722346.
 (HSE-) HYSBO INC.
 Yang YI, Liu C, Asundi V, Chen K, Ma Y, Qian XB, Meng D:
 Tang Z, Wang Z, Wehrman T, Xu C, Xue AJ, Yang Y, Zhang J:
 Zhao QA, Zhou P, Goodrich R, Drmanac RT:
 h01: 2001-44225/47.
 P-PSDB: AA041027.
 local nucleic acids and polypeptides, useful for treating disorders
 such as central nervous system injuries -
 Claim 1: SEQ ID NO 4772: 10076PP: English.
 The invention relates to human nucleic acids (AA157796-AA161365) and the encoded polypeptides (AA041027-AA42213), with nocitropic, immunosuppressant and cytostatic activity. The polynucleotide, immunosuppressant and cytostatic activity. The polynucleotide of polynucleotide in gene therapy may be used to treat diseases of the peripheral nervous system such as peripheral nervous injuries, peripheral neuropathy and localized neuropathies and central nervous system diseases, such as Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic lateral sclerosis, and Shy-Drager Syndrome. Other uses include the utilisation of the activities such as: immune system suppression, activation/inhibition activity, chemoclastic/chemoclastic activity, haemostatic and thromolytic activity, cancer diagnosis and therapy, drug screening, assays for receptor activity, arthritis and inflammation, leukemias and C.N.S. disorders.
 C.N.S. disorders.
 Specification.
 Sequence 1956 bp: 613 A: 339 C: 442 G: 564 T: 0 Other:
 2-ary Match 86.94: Score 959: Db 22: Length 1958:
 best Local Similarity 59.54: Pred. No.: 0:
 Mismatch 105: Conservative 0: Mismatches 0: Indels 1: Gaps 1

[illegible]

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RESULT =
AA47116/2 standard: CDRH: 1920 bp.
D0 AA47116:
D1 15-MAR-2000 (first entry)
DE Human: CD40 receptor associated protein gene.
XM Antiferriosteolytic; antiinflammatory; neuroprotective; dermatological;
XM immunosuppressive; antiproliferative; antitumor; chemopreventive; antiallergic;
XM tumour necrosis factor; TNF: receptor; superfamily: CD30: homology;
XM TNF receptor associated factor; TRAF: modulator; signalling pathway;
XM diaphorase; NF-kappaB; Jun; kinase; atherosclerosis; multiple sclerosis;
XM arthritis; systemic lupus erythematosus; graft rejection; allergy;
XM graft versus host disease; autoimmune disease; ds-
OS Bcmc sapiens.
PM kb955859-42.
PD 64-NOV-1995.
PF 26-AUG-1999: 95MO-EP03025.
PX XX
XX 29-AUG-1999: 90EL-0201392.
FA (VIAA-) VLAMMS INTERVIEWERSTAIRS INSI BIOECHANOC.
FX Pfyre SMC. Remacle JEFJO. Hayleibuck ME:
FX WPI: 2000-062029/05.
LX P-PSIbs: AAYECOL5.
P1 Novel proteins used to treat inflammatory diseases, NF-kappaB related
P2 diseases and for improvement of anti-tumor treatments .
P3
P4 Claim 5*: Page 37-35: 46pp: English.
P5
P6 This sequence represents the gene encoding human CD40 receptor or
P7 associated protein (CRAP). CRAP is a functional protein capable of
P8 interacting with the cytoplasmic domain of CD40 and/or other receptors
P9 of the tumour necrosis factor (TNF) receptor superfamily such as CD30
P10 and TNF receptor 1, where the protein has no homology to TNF receptor
P11 associated factor (TRAF)-proteins. The CD40 binding proteins can be
P12 used as modulators of the CD40 signaling pathway. These proteins are
P13 highly expressed in the cells of the immune system, especially in T-cells
P14 (T-helper cells), related diseases, and for the improvement of anti-tumour
P15 diseases. Diseases which may be treated include atherosclerosis, graft
P16 arteritis, multiple sclerosis, systemic lupus erythematosus, graft
P17 rejection, graft versus host disease, allergy, and autoimmune disease.
P18 The proteins can be used to sensitize tumour cells to anti-tumour
P19 treatments and to screen for compounds which interfere with the
P20 interaction of the proteins with other protein components of the
P21 TRAF, CD40 or NF-kappaB related pathway.
P22
P23 Sequence 1920 bp: 595 A; 327 C; 435 G; 597 T; 2 ctatcg:
P24
Q Query Match 84.2% Score 908; DB 21; Length 1920;
P Best Local Similarity 95.8%; Pred. No. 0;
M Matches 1076; Conservative 0; Mismatches 1; Indels 1; Gaps 1
C5 i agctccaaagactcaataacattgaagtgttcctttagagagcttttatgatataaac
Cc 1502 AGCTCCAAAGACTCAATAACATTGAAGTGTTCCTTTAGAGAGCTTTATGATATTAAC
Cc 1443 TATTCCTAGTGCCTCATATGAGAAAATATAAACATATACCTCGAAGACAATGGCTACTGTT
Cc 1443 TATTCCTAGTGCCTCATATGAGAAAATATAAACATATACCTCGAAGACAATGGCTACTGTT

```

[illegible]

[illegible]

[illegible][illegible]

Oy 1025 acttcctgtaagaatcatcatctggcgcgtacaagcctaagtaggaacaccc 1075
 |||||||
 Db 481 ACTTCCCTGTGAATAATCATCATCTGGGCTGTACAAAGCTAAGTAGGACACACC 427

RESULT 9
 ID AAH08073/c
 ID AAH08073 standard; cDNA: 752 BP.
 AAH08073:
 26-JUN-2001 (first entry)
 Human cDNA clone (5'-primer) SEQ ID NO:4908.
 Human: primer: detection; diagnosis; antisense therapy; gene therapy; ss
 Homo sapiens.
 EP1074617-A2.
 07-FEB-2001.
 28-JUL-2000; 2000EP-0116126.
 29-JUL-1999; 99JP-0248036.
 27-AUG-1999; 99JP-0300253.
 11-JAN-2000; 2000JP-0118776.
 02-MAY-2000; 2000JP-0183767.
 09-JUN-2000; 2000JP-0218199.
 (HELI-) HELIX RES INST.
 Ota T, Isogai T, Mshikawa T, Hayashi K, Saito K, Yamamoto J;
 Ishii S, Sugiyama T, Wakamatsu A, Nagai K, Otsuki T;
 WPI: 2001-318749/34.
 Primer sets for synthesizing polynucleotides, particularly the 5602
 full-length cDNAs defined in the specification, and for the detection
 and/or diagnosis of the abnormality of the proteins encoded by the
 full-length cDNAs -
 Claim 1: SEQ ID 4908: 2537bp + CD ROM; English.
 The present invention describes primer sets for synthesizing 5602
 full-length cDNAs defined in the specification. Where a primer set
 comprises: (a) an oligo-dT primer and an oligonucleotide complementary
 to the complementary strand of a polynucleotide which comprises one of
 the 5602 nucleotide sequences defined in the specification, where the
 oligonucleotide comprises at least 15 nucleotides; or (b) a combination
 of an oligonucleotide comprising a sequence complementary to the
 complementary strand of a polynucleotide which comprises a 5'-end
 sequence and an oligonucleotide comprising a sequence complementary to a
 polynucleotide which comprises a 3'-end sequence, where the
 oligonucleotide comprises at least 15 nucleotides, and the combination of
 the 5'-end sequence/3'-end sequence is selected from those defined in
 the specification. The primer sets can be used in antisense therapy and
 in gene therapy. The primers are useful for synthesizing polynucleotides,
 particularly full-length cDNAs. The primers are also useful for the
 detection and/or diagnosis of the abnormality of the proteins encoded by the
 full-length cDNAs. The primers allow obtaining of the full-length
 cDNAs easily without any specialized methods. AAH03166 to AAH13628 and
 AAH13633 to AAH18742 represent human cDNA sequences; AAH92446 to
 AAB95893 represent human amino acid sequences; and AAH13629 to AAH13632
 represent oligonucleotides, all of which are used in the exemplification
 of the present invention.
 Sequence 752 BP; 225 A; 148 C; 200 G; 176 T; 3 other:
 Query Match 19.4%; Score 209; DB 22; Length 752;

[illegible]

Query Match 8.7%: Score 94; DB 22; Length 444;
Best Local Similarity 100.0%; Pred. No. 4.7e-37;
Matches 94; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 964 accgtgaataatcatalactactgacatctctcttagtagtataatgaggaat 1023
Db 346 ACCGTGAATAATCATATACCTGATCTCTTTAGTAGCTATATATGGGGAAT 287
Qy 1024 aacttcctgtagaataatcacatctggagctgac 1057
Db 286 AACTTCCTGTAGAAATATCATCTGGCTGTAC 253

RESULT 11
AA124484/C
ID AA124484 standard; DNA: 691 BP.

AC AA124484:
XX 12-OCT-2001 (first entry)
DT
XX Probe #14417 for gene expression analysis in human cervical cell sample.
DE
XX Probe: human; microarray; gene expression; cervical epithelial cell;
KM
XX cervical cancer; ss.

XX Homo sapiens.

XX MO200157278-A2.

XX 09-AUG-2001.

XX 30-JAN-2001; 2001MO-US00670.

XX 04-FEB-2000; 2000US-0180312.

XX 26-MAY-2000; 2000US-0207456.

XX 30-JUN-2000; 2000US-0608408.

XX 03-AUG-2000; 2000US-0632366.

XX 21-SEP-2000; 2000US-0234687.

XX 27-SEP-2000; 2000US-0236359.

XX 04-OCT-2000; 2000GB-0024263.

XX (MOLE-) MOLECULAR DYNAMICS INC.

XX Penn SG, Hanzel DK, Chen W, Rank DR;

XX WPI; 2001-488901/53.

XX Human genome-derived single exon nucleic acid probes useful for

XX analyzing gene expression in human cervical epithelial cells -

XX Claim 25; SEQ ID NO 14417; 487bp; English.

XX The present invention relates to human single exon nucleic acid probes
XX (SENP). The present sequence is one such probe. The SENPs are derived
XX from human HeLa cells. The SENPs can be used to produce a single exon
XX microarray, which can be used for measuring human gene expression in a
XX sample derived from human cervical epithelial cells. By measuring gene
XX expression, the probes are therefore useful in grading and/or staging
XX of diseases of the cervix, notably cervical cancer.
XX Note: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format directly from WIPO
XX at ftp.wipo.int/pub/published_pcr_sequences.

XX Sequence 691 BP; 230 A; 81 C; 112 G; 268 T; 0 other;

Query Match 8.7%: Score 94; DB 22; Length 691;
Best Local Similarity 100.0%; Pred. No. 4.7e-37;
Matches 94; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 964 accgtgaataatcatalactactgacatctctcttagtagtataatgaggaat 1023

Db 208 ACCGTGAATAATCATATACCTGATCTCTTTAGTAGCTATATATGGGGAAT 149

Qy 1024 aacttcctgtagaataatcacatctggagctgac 1057
Db 148 AACTTCCTGTAGAAATATCATCTGGCTGTAC 115

RESULT 12
AA40550/C
ID AA40550 standard; cDNA: 483 BP.

AC AA40550:
XX 18-JUN-1999 (first entry)
DT
XX Human secreted protein 5' EST SEQ ID NO: 150.

XX Human; secreted protein; EST; expressed sequence tag; diagnosis;
XX forensic; gene therapy; chromosome mapping; signal peptide; prostate;
XX upstream regulatory sequence; cytokine activity; cell proliferation;
XX differentiation; haematopoiesis regulation; tissue growth regulation;
XX reproductive hormone regulation; chemotactic; chemokinetic; haemostatic;
XX thrombolytic; anti-inflammatory; tumour inhibition; ds.

XX Homo sapiens.

XX MO9906550-A2.

XX 11-FEB-1999.

XX 31-JUL-1998; 58MO-1B01232.

XX 01-AUG-1997; 97US-0905144.

XX (GEST) GENSET.

XX Duclert A, Dumas Milne Edwards J, Lacroix B;

XX WPI: 1999-153780/13.

XX P-PSDB; AAY11868.

XX New isolated prostate-derived nucleic acids - used to develop
XX products which may have cytokine, immune regulatory, haematopoiesis
XX regulating, anti-inflammatory or tumour inhibition activity

XX Claim 1; Page 298; 675bp; English.

XX AA40435 to AA40715 represent 5' expressed sequence tags (ESTs) for
XX human secreted proteins expressed in prostate, and encode the proteins
XX given in AA40716 to AA41193 respectively. The proteins given represent
XX the signal peptide and an N-terminal fragment of a secreted protein. The
XX nucleic acid sequences can be used for producing secreted human gene
XX products. They can also be used to develop products for diagnosis and
XX therapy. The proteins obtained may have cytokine activity, cell
XX proliferation and differentiation activity, haematopoiesis regulating
XX activity, tissue growth regulating activity, reproductive hormone
XX regulating activity, chemotactic/chemokinetic activity, haemostatic and
XX thrombolytic activity, receptor/ligand activity, anti-inflammatory
XX activity, tumour inhibition activity or other activities. The products
XX can be used in forensic, gene therapy and chromosome mapping procedures
XX The sequences can also be used for obtaining corresponding promoter
XX sequences. The nucleic acids encoding the signal peptides can be used f:
XX directing extracellular secretion of a polypeptide or the insertion of a
XX polypeptide into a membrane, or importing a polypeptide into a cell.

XX Sequence 483 BP; 123 A; 111 C; 139 G; 110 T; 0 other;

Query Match 7.4%: Score 80; DB 20; Length 483;
Best Local Similarity 100.0%; Pred. No. 4.7e-30;
Matches 80; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Query Match 4.2%; Score 45; DB 22; Length 579;
Best Local Similarity 100.0%; Pred. No. 1.5e-13;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 51 aaatattactatcctgcgtcctgaatggaataataacatca 95
|||||
DB 467 aaatattactatcctgcgtcctgaatggaataataacatca 511

RESULT 15

AAZ47119/C
ID AAZ47119 standard; cDNA; 1312 BP.

AC AAZ47119;

DT 15-MAR-2000 (first entry)

DE Mouse CD40 receptor associated protein gene.

XX Antiartherosclerotic; antiarthritic; neuroprotective; dermatological;
KM immunosuppressive; antiinflammatory; immunosuppressive; antiallergic;
KM mouse; CD40 receptor associated protein; CRAP; cytoplasmic domain;
KM tumour necrosis factor; TNF; receptor; superfamily; CD30; homology;
KM TNF receptor associated factor; TRAF; modulator; signalling pathway;
KM diagnosis; NF-kappaB; Jun; kinase; atherosclerosis; multiple sclerosis;
KM arthritis; systemic lupus erythematosus; graft rejection; allergy;
KM graft versus host disease; autoimmune disease; ds.

OS Mus musculus.

PN MO955859-A2.

PD 04-NOV-1999.

PE 28-APR-1999; 99WO-EP03025.

PR 25-APR-1998; 98EP-0201392.

XX (VLA-) VLAAMS INTERUNIVERSITAIR INST BIOTECHNOG.

PA Pype SMC, Remacle JEFFG, Huylebroeck DFE;

DR WPI: 2000-062029/05.

DR P-PSDB: AAY56020.

PT Novel proteins used to treat inflammatory diseases, NF-kappaB related

PS diseases and for improvement of anti-tumor treatments

PS Claim 10; Page 41-43; 48pp; English.

CC This sequence represents the gene encoding mouse CD40 receptor
CC associated protein (CRAP). CRAP is a functional protein capable of
CC interacting with the cytoplasmic domain of CD40 and/or other receptors
CC of the tumour necrosis factor (TNF) receptor superfamily such as CD30
CC and TNF receptor 1, where the protein has no homology to TNF receptor
CC associated factor (TRAF)-proteins. The CD40 binding proteins can be
CC used as modulators of the CD40 signalling pathway, especially to
CC diagnose and treat TRAF-related, CD40-related, NF-kappaB related and/or
CC Jun (kinase)-related diseases, and for the improvement of anti-tumour
CC diseases. Diseases which may be treated include atherosclerosis,
CC arthritis, multiple sclerosis, systemic lupus erythematosus, graft
CC rejection, graft versus host disease, allergy, and autoimmune disease.
CC The proteins can be used to sensitize tumour cells to anti-tumour
CC treatments and to screen for compounds which interfere with the
CC interaction of the proteins with other protein components of the
CC TRAF, CD40 or NF-kappaB related pathway.

XX Sequence 1312 BP; 359 A; 279 C; 352 G; 322 T; 0 other;

Query Match

Best Local Similarity 3.3%; Score 36; DB 21; Length 1312;
Matches 36; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 765 ctcttgctctcccaatggatgcatgaagcaaa 824
|||||
DB 845 ctcttgctctcccaatggatgcatgaagcaaa 610

RESULT 16

AAH33140
ID AAH33140 standard; cDNA; 417 BP.

AC AAH33140;

DT 03-SEP-2001 (first entry)

DE Human colon cancer antigen encoding cDNA seq ID NO:146.

KM Human: colon cancer; colon cancer antigen; diagnosis; detection;
KM colorectal carcinoma; chromosome X; ss.

OS Homo sapiens.

PN MO20012920-A2.

PD 05-APR-2001.

PE 28-SEP-2000; 2000WO-US26524.

PR 29-SEP-1999; 99US-0157137.

PR 03-NOV-1999; 99US-0163280.

PA (HUMA-) HUMAN GENOME SCI INC.

PI Ruben SM, Barash SC, Birse CE, Rosen CA;

DR WPI: 2001-235357/24.

DR P-PSDB: AAG73709.

PT Nucleic acids encoding 4277 human colon cancer-associated polypeptides,
PT useful for preventing, diagnosing and/or treating colorectal cancers

PS Claim 1; Page 2344; 9803pp; English.

CC AAH3254; to AAH37195 and AAG73514 to AAG77788 represent human colon
CC cancer-associated nucleic acid molecules (N) and proteins (P), where
CC the proteins are collectively known as colon cancer antigens. The colon
CC cancer antigens have cytosolic activity and can be used in gene
CC therapy and vaccine production. N and P may be used in the prevention,
CC diagnosis and treatment of diseases associated with inappropriate P
CC expression. For example, N and P may be used to treat disorders
CC associated with decreased expression by rectifying mutations or deletions
CC in a patient's genome that affect the activity of P by expressing
CC inactive proteins or to supplement the patients own production of P.
CC Additionally, N may be used to produce the colon cancer-associated Ps,
CC by inserting the nucleic acids into a host cell and culturing the cell
CC to express the proteins. N and P can be used in the prevention, diagnosis
CC and treatment of colorectal carcinomas and cancers. AAH37196 to AAH37204
CC and AAG77789 represent sequences used in the exemplification of the
CC present invention.
CC N.B. Pages 66 to 682 and page 7053 of the sequence listing were
CC missing at time of publication, meaning no sequences are present for
CC SEQ ID NO:1027 to 1052, 7921 and 7922.

XX Sequence 417 BP; 118 A; 61 C; 65 G; 172 T; 1 other;

Query Match

Best Local Similarity 1.9%; Score 21; DB 22; Length 117;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 459 agtttcttaatccaagaagg 475
|||||

DB 149 agtttcttaatccaagaagg 169

RESULT 17

AAV55038

ID AAV55038 standard; cDNA: 5232 BP.

XX AAV55038;

DT 13-NOV-1998 (first entry)

XX Human XIAP coding sequence.

XX Inhibitor of apoptosis protein; apoptosis enhancer; NAIP polypeptide;
KW proliferative disease; IAP; therapy; cancer; human; XIAP protein; ss.

XX Homo sapiens.

FH Key Location/Qualifiers

FT CDS 34..1527

FT /tag= a

FT /product= XIAP

XX W09835693-A2.

PD 20-AUG-1998.

XX 13-FEB-1998; 98WO-1B00781.

XX 13-FEB-1997; 97US-0800929.

XX (UYOT-) UNIV OTTAWA.

PI Baird S, Korneluk R, Liston P, Mackenzie AE, Pratt C;

PI Tsang B;

DR WPI: 1998-467164/40.

DR P-PSDB; AAW69294.

XX Inducing apoptosis in proliferative mammalian cells with inhibitor
PT of IAP or NAIP polypeptide - also methods for prognosis based on
PT presence of IAP and NAIP, specifically applied to cancers involving
PT p53 mutations

XX Claim 13; Fig 1; 147pp; English.

XX This sequence encodes the human XIAP protein, which is a inhibitor of
CC Apoptosis protein (IAP), and can be used in the method of the invention.
CC The method is for enhancing apoptosis in cells from a mammal with
CC proliferative disease by treatment with a compound that inhibits
CC biological activity of an IAP or NAIP polypeptide. The inhibitory
CC compounds are used to treat proliferative diseases. Specially cancers of
CC ovary, breast, pancreas, lymph nodes, skin, blood, lung, brain, kidney,
CC liver, nasopharynx, thyroid, central nervous system, prostate, colon,
CC rectum, cervix or endometrium, particularly to increase their sensitivity
CC to chemotherapeutic agents. High levels of the IAP or NAIP proteins are
CC detected in many cancers and are associated with poor prognosis.
CC resistance to chemotherapeutic agents and mutations in p53 (it is
CC suggested that wild type p53 suppresses transcription of the IAP or NAIP
CC genes). Transgenic animals are used for testing the effects of antisense
CC oligonucleotides and for screening for the inhibitors.

SQ Sequence 5232 BP; 1579 A; 861 C; 1062 G; 1728 T; 2 other;

Query Match 1.9%; Score 21; DB 19; Length 5232;

Best Local Similarity 100.0%; Pred. No. 1.6;

Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 459 agtttctaatccaagaag 479

DB 2498 agtttctaatccaagaag 2518

RESULT 18

AAC31359

ID AAC31359 standard; cDNA: 237 BP.

XX AAC31359;

DT 06-OCT-2000 (first entry)

XX Human secreted protein 5' EST, SEQ ID NO: 35434.

XX Human; 5' EST; expressed sequence tag; secreted protein; cDNA isolation;
KW gene therapy; chromosome mapping; ss.

XX Homo sapiens.

XX EPI033401-A2.

PD 06-SEP-2000.

XX 21-FEB-2000; 2000EP-0200610.

XX 26-FEB-1999; 99US-0122487.

XX (CEST) GENSET.

PI Dunas Milne Edwards J, Duclert A, Giordano J;

DR WPI: 2000-500381/45.

XX New nucleic acid that is a 5' expressed sequence tag (5' EST) for
PT obtaining cDNAs and genomic DNAs that correspond to 5'ESTs and for
PT diagnostic, forensic, gene therapy and chromosome mapping procedures -

XX Claim 1; SEQ ID 35434; 71pp + CD-ROM; English.

XX The present sequence is one of a large number of 5' ESTs derived from
CC mRNAs encoding secreted proteins. No ORF has yet been conclusively
CC identified within the present sequence. The 5' ESTs were prepared from
CC total human RNAs or polyA+ RNAs derived from 30 different tissues. EST
CC sequences usually correspond mainly to the 3' untranslated region (UTR)
CC of the mRNA because they are often obtained from oligo-dT primed cDNA
CC libraries. Such ESTs are not well suited for isolating cDNA sequences
CC derived from the 5' ends of mRNAs and even in those cases where longer
CC cDNA sequences have been obtained, the full 5' UTR is rarely included.
CC 5' ESTs are derived from mRNAs with intact 5' ends and can therefore be
CC used to obtain full length cDNAs and genomic DNAs. 5' ESTs are also used
CC in diagnostic, forensic, gene therapy and chromosome mapping procedures.
CC They are used to obtain upstream regulatory sequences and to design
CC expression and secretion vectors.

XX Sequence 237 BP; 59 A; 72 C; 65 G; 37 T; 4 other;

Query Match 1.9%; Score 20; DB 21; Length 237;

Best Local Similarity 100.0%; Pred. No. 4.7;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 417 cacagaagaccagtgatc 436

DB 125 cacagaagaccagtgatc 144

RESULT 19

AAC34438/C

ID AAC34438 standard; DNA: 577 BP.

XX AAC34438;

DT 17-OCT-2000 (first entry)

XX Arabidopsis thaliana DNA fragment SEQ ID NO: 6656.

XX Hybridisation assay; genetic mapping; gene expression control;
KW protein identification; signal transduction pathway;

KM metabolic pathway; promoter; termination sequence; ss.
XX Arabidopsis thaliana.
XX EPI033405-A2.
XX
PD 06-SEP-2000.
XX
PF 25-FEB-2000; 2000EP-0301439.
XX
PR 25-FEB-1999; 990S-0121825.
PR 05-MAR-1999; 990S-0121180.
PR 09-MAR-1999; 990S-0121548.
PR 23-MAR-1999; 990S-0125788.
PR 25-MAR-1999; 990S-0126264.
PR 29-MAR-1999; 990S-0126785.
PR 01-APR-1999; 990S-0127462.
PR 06-APR-1999; 990S-0128234.
PR 08-APR-1999; 990S-0128714.
PR 16-APR-1999; 990S-0129845.
PR 19-APR-1999; 990S-0130077.
PR 21-APR-1999; 990S-0130449.
PR 23-APR-1999; 990S-0130510.
PR 28-APR-1999; 990S-0130891.
PR 30-APR-1999; 990S-0131449.
PR 30-APR-1999; 990S-0132048.
PR 04-MAY-1999; 990S-0132484.
PR 05-MAY-1999; 990S-0132485.
PR 06-MAY-1999; 990S-0132486.
PR 06-MAY-1999; 990S-0132487.
PR 07-MAY-1999; 990S-0132487.
PR 11-MAY-1999; 990S-0132563.
PR 14-MAY-1999; 990S-0134218.
PR 14-MAY-1999; 990S-0134219.
PR 14-MAY-1999; 990S-0134221.
PR 14-MAY-1999; 990S-0134370.
PR 18-MAY-1999; 990S-0134768.
PR 19-MAY-1999; 990S-0134941.
PR 20-MAY-1999; 990S-0135124.
PR 21-MAY-1999; 990S-0135353.
PR 24-MAY-1999; 990S-0135629.
PR 25-MAY-1999; 990S-0136021.
PR 27-MAY-1999; 990S-0136392.
PR 28-MAY-1999; 990S-0136782.
PR 01-JUN-1999; 990S-0137222.
PR 03-JUN-1999; 990S-0137528.
PR 04-JUN-1999; 990S-0137502.
PR 07-JUN-1999; 990S-0137724.
PR 08-JUN-1999; 990S-0138094.
PR 10-JUN-1999; 990S-0138540.
PR 10-JUN-1999; 990S-0138847.
PR 14-JUN-1999; 990S-0139119.
PR 16-JUN-1999; 990S-0139452.
PR 16-JUN-1999; 990S-0139453.
PR 18-JUN-1999; 990S-0139459.
PR 18-JUN-1999; 990S-0139460.
PR 18-JUN-1999; 990S-0139461.
PR 18-JUN-1999; 990S-0139462.
PR 18-JUN-1999; 990S-0139463.
PR 18-JUN-1999; 990S-0139463.
PR 18-JUN-1999; 990S-0139463.
PR 21-JUN-1999; 990S-0139617.
PR 22-JUN-1999; 990S-0139899.
PR 23-JUN-1999; 990S-0140353.
PR 23-JUN-1999; 990S-0140354.
PR 24-JUN-1999; 990S-0140695.

PR 28-JUN-1999; 990S-0140823.
PR 29-JUN-1999; 990S-0140991.
PR 30-JUN-1999; 990S-0141287.
PR 01-JUL-1999; 990S-0141842.
PR 01-JUL-1999; 990S-0142154.
PR 02-JUL-1999; 990S-0142055.
PR 06-JUL-1999; 990S-0142350.
PR 08-JUL-1999; 990S-0142803.
PR 09-JUL-1999; 990S-0142520.
PR 12-JUL-1999; 990S-0142577.
PR 13-JUL-1999; 990S-0143542.
PR 14-JUL-1999; 990S-0143624.
PR 15-JUL-1999; 990S-0144005.
PR 16-JUL-1999; 990S-0144085.
PR 16-JUL-1999; 990S-0144086.
PR 19-JUL-1999; 990S-0144325.
PR 19-JUL-1999; 990S-0144331.
PR 19-JUL-1999; 990S-0144332.
PR 19-JUL-1999; 990S-0144333.
PR 19-JUL-1999; 990S-0144334.
PR 19-JUL-1999; 990S-0144335.
PR 20-JUL-1999; 990S-0144352.
PR 20-JUL-1999; 990S-0144632.
PR 20-JUL-1999; 990S-0144884.
PR 21-JUL-1999; 990S-0144814.
PR 21-JUL-1999; 990S-0145086.
PR 21-JUL-1999; 990S-0145088.
PR 22-JUL-1999; 990S-0145085.
PR 22-JUL-1999; 990S-0145087.
PR 22-JUL-1999; 990S-0145089.
PR 22-JUL-1999; 990S-0145192.
PR 23-JUL-1999; 990S-0145145.
PR 23-JUL-1999; 990S-0145218.
PR 23-JUL-1999; 990S-0145224.
PR 26-JUL-1999; 990S-0145276.
PR 27-JUL-1999; 990S-0145913.
PR 27-JUL-1999; 990S-0145918.
PR 27-JUL-1999; 990S-0145919.
PR 28-JUL-1999; 990S-0145951.
PR 02-AUG-1999; 990S-0146386.
PR 02-AUG-1999; 990S-0146388.
PR 02-AUG-1999; 990S-0146389.
PR 03-AUG-1999; 990S-0147038.
PR 04-AUG-1999; 990S-0147204.
PR 04-AUG-1999; 990S-0147302.
PR 05-AUG-1999; 990S-0147192.
PR 05-AUG-1999; 990S-0147260.
PR 06-AUG-1999; 990S-0147303.
PR 06-AUG-1999; 990S-0147416.
PR 09-AUG-1999; 990S-0147493.
PR 09-AUG-1999; 990S-0147935.
PR 10-AUG-1999; 990S-0148171.
PR 11-AUG-1999; 990S-0148319.
PR 12-AUG-1999; 990S-0148341.
PR 13-AUG-1999; 990S-0148565.
PR 13-AUG-1999; 990S-0148684.
PR 16-AUG-1999; 990S-0149368.
PR 17-AUG-1999; 990S-0149175.
PR 18-AUG-1999; 990S-0149426.
PR 20-AUG-1999; 990S-0149422.
PR 20-AUG-1999; 990S-0149723.
PR 20-AUG-1999; 990S-0149929.
PR 23-AUG-1999; 990S-0149502.
PR 23-AUG-1999; 990S-0149530.
PR 23-AUG-1999; 990S-0150566.
PR 26-AUG-1999; 990S-0150884.
PR 27-AUG-1999; 990S-0151065.
PR 27-AUG-1999; 990S-0151066.
PR 27-AUG-1999; 990S-0151080.
PR 30-AUG-1999; 990S-0151303.
PR 31-AUG-1999; 990S-0151438.
PR 01-SEP-1999; 990S-0151930.
PR 07-SEP-1999; 990S-0152363.

PR 10-SEP-1999; 99US-0153070.
PR 13-SEP-1999; 99US-0153758.
PR 15-SEP-1999; 99US-0154018.
PR 16-SEP-1999; 99US-0154039.
PR 20-SEP-1999; 99US-0154779.
PR 22-SEP-1999; 99US-0155139.
PR 23-SEP-1999; 99US-0155486.
PR 24-SEP-1999; 99US-0155659.
PR 28-SEP-1999; 99US-0155658.
PR 29-SEP-1999; 99US-0155596.
PR 04-OCT-1999; 99US-0157117.
PR 05-OCT-1999; 99US-0157753.
PR 06-OCT-1999; 99US-0157865.
PR 07-OCT-1999; 99US-0158029.
PR 08-OCT-1999; 99US-0158232.
PR 12-OCT-1999; 99US-0158369.
PR 13-OCT-1999; 99US-0158293.
PR 13-OCT-1999; 99US-0158294.
PR 13-OCT-1999; 99US-0158295.
PR 14-OCT-1999; 99US-0159329.
PR 14-OCT-1999; 99US-0159330.
PR 14-OCT-1999; 99US-0159331.
PR 14-OCT-1999; 99US-0159637.
PR 18-OCT-1999; 99US-0155638.
PR 18-OCT-1999; 99US-0155584.
PR 21-OCT-1999; 99US-0160741.
PR 21-OCT-1999; 99US-0160767.
PR 21-OCT-1999; 99US-0160768.
PR 21-OCT-1999; 99US-0160770.
PR 21-OCT-1999; 99US-0160814.
PR 21-OCT-1999; 99US-0160815.
PR 22-OCT-1999; 99US-0160980.
PR 22-OCT-1999; 99US-0160981.
PR 22-OCT-1999; 99US-0160989.
PR 25-OCT-1999; 99US-0161404.
PR 25-OCT-1999; 99US-0161405.
PR 25-OCT-1999; 99US-0161406.
PR 26-OCT-1999; 99US-0161359.
PR 26-OCT-1999; 99US-0161360.
PR 26-OCT-1999; 99US-0161361.
PR 26-OCT-1999; 99US-0161920.
PR 28-OCT-1999; 99US-0161992.
PR 28-OCT-1999; 99US-0161993.
PR 28-OCT-1999; 99US-0162142.

Query Match 1.9%; Score 20; DB 21; Length 577;
Best Local Similarity 100.0%; Pred. No. 4.8;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 912 attcactcttgattcttc 931
|||||
Db 224 ATTCACTCTGATTCTTC 205

RESULT 20
AAC44257/c
ID AAC44257 standard; DNA: 960 BP.
XX
AC AAC44257;
XX
DT 18-OCT-2000 (first entry)
XX
XX Arabidopsis thaliana DNA fragment SEQ ID NO: 42196.
DE
XX Hybridisation assay; genetic mapping; gene expression control;
KM protein identification; signal transduction pathway;
KM metabolic pathway; promoter; termination sequence; ss.
XX
OS Arabidopsis thaliana.
XX
PN EP1033405-A2.
XX
PD 06-SEP-2000.

XX
PR 25-FEB-2000; 2000EP-0301435.
XX
PR 25-FEB-1999; 99US-0121825.
PR 05-MAR-1999; 99US-0123160.
PR 05-MAR-1999; 99US-0123548.
PR 23-MAR-1999; 99US-0125788.
PR 25-MAR-1999; 99US-0126264.
PR 29-MAR-1999; 99US-0126785.
PR 01-APR-1999; 99US-0127462.
PR 06-APR-1999; 99US-0128234.
PR 08-APR-1999; 99US-0128714.
PR 16-APR-1999; 99US-0129845.
PR 19-APR-1999; 99US-0130077.
PR 21-APR-1999; 99US-0130445.
PR 23-APR-1999; 99US-0130510.
PR 23-APR-1999; 99US-0130851.
PR 28-APR-1999; 99US-0131445.
PR 30-APR-1999; 99US-0132048.
PR 30-APR-1999; 99US-0132407.
PR 04-MAY-1999; 99US-0132484.
PR 05-MAY-1999; 99US-0132485.
PR 06-MAY-1999; 99US-0132486.
PR 07-MAY-1999; 99US-0132487.
PR 11-MAY-1999; 99US-0134256.
PR 14-MAY-1999; 99US-0134218.
PR 14-MAY-1999; 99US-0134219.
PR 14-MAY-1999; 99US-0134221.
PR 14-MAY-1999; 99US-0134370.
PR 18-MAY-1999; 99US-0134768.
PR 19-MAY-1999; 99US-0134941.
PR 20-MAY-1999; 99US-0135124.
PR 21-MAY-1999; 99US-0135353.
PR 25-MAY-1999; 99US-0135629.
PR 27-MAY-1999; 99US-0136021.
PR 28-MAY-1999; 99US-0136392.
PR 01-JUN-1999; 99US-0136782.
PR 03-JUN-1999; 99US-0137222.
PR 04-JUN-1999; 99US-0137502.
PR 07-JUN-1999; 99US-0137724.
PR 08-JUN-1999; 99US-0138094.
PR 10-JUN-1999; 99US-0138540.
PR 14-JUN-1999; 99US-0138847.
PR 16-JUN-1999; 99US-0139119.
PR 16-JUN-1999; 99US-0139452.
PR 17-JUN-1999; 99US-0139453.
PR 18-JUN-1999; 99US-0139454.
PR 18-JUN-1999; 99US-0139455.
PR 18-JUN-1999; 99US-0139456.
PR 18-JUN-1999; 99US-0139457.
PR 18-JUN-1999; 99US-0139458.
PR 18-JUN-1999; 99US-0139459.
PR 18-JUN-1999; 99US-0139460.
PR 18-JUN-1999; 99US-0139461.
PR 18-JUN-1999; 99US-0139462.
PR 18-JUN-1999; 99US-0139463.
PR 18-JUN-1999; 99US-0139750.
PR 18-JUN-1999; 99US-0139763.
PR 21-JUN-1999; 99US-0139817.
PR 22-JUN-1999; 99US-0139899.
PR 23-JUN-1999; 99US-0140353.
PR 23-JUN-1999; 99US-0140354.
PR 24-JUN-1999; 99US-0140655.
PR 28-JUN-1999; 99US-0140823.
PR 29-JUN-1999; 99US-0140961.
PR 30-JUN-1999; 99US-0141287.
PR 01-JUL-1999; 99US-0141842.
PR 01-JUL-1999; 99US-0142154.
PR 02-JUL-1999; 99US-0142055.
PR 06-JUL-1999; 99US-0142390.

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PR 08-JUL-1999: 99US-0142803.
PR 09-JUL-1999: 99US-0142920.
PR 12-JUL-1999: 99US-0142977.
PR 13-JUL-1999: 99US-0143342.
PR 14-JUL-1999: 99US-0143624.
PR 15-JUL-1999: 99US-0144005.
PR 16-JUL-1999: 99US-0144085.
PR 19-JUL-1999: 99US-0144325.
PR 19-JUL-1999: 99US-0144331.
PR 19-JUL-1999: 99US-0144332.
PR 19-JUL-1999: 99US-0144333.
PR 19-JUL-1999: 99US-0144334.
PR 19-JUL-1999: 99US-0144335.
PR 20-JUL-1999: 99US-0144352.
PR 20-JUL-1999: 99US-0144632.
PR 21-JUL-1999: 99US-0144884.
PR 21-JUL-1999: 99US-0144814.
PR 21-JUL-1999: 99US-0145086.
PR 22-JUL-1999: 99US-0145088.
PR 22-JUL-1999: 99US-0145085.
PR 22-JUL-1999: 99US-0145087.
PR 22-JUL-1999: 99US-0145089.
PR 23-JUL-1999: 99US-0145192.
PR 23-JUL-1999: 99US-0145145.
PR 23-JUL-1999: 99US-0145218.
PR 23-JUL-1999: 99US-0145224.
PR 26-JUL-1999: 99US-0145276.
PR 27-JUL-1999: 99US-0145913.
PR 27-JUL-1999: 99US-0145918.
PR 28-JUL-1999: 99US-0145919.
PR 02-AUG-1999: 99US-0146381.
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PR 02-AUG-1999: 99US-0146388.
PR 03-AUG-1999: 99US-0146389.
PR 04-AUG-1999: 99US-0147204.
PR 04-AUG-1999: 99US-0147302.
PR 05-AUG-1999: 99US-0147192.
PR 05-AUG-1999: 99US-0147260.
PR 06-AUG-1999: 99US-0147303.
PR 06-AUG-1999: 99US-0147416.
PR 09-AUG-1999: 99US-0147493.
PR 09-AUG-1999: 99US-0147935.
PR 10-AUG-1999: 99US-0148171.
PR 11-AUG-1999: 99US-0148319.
PR 12-AUG-1999: 99US-0148341.
PR 13-AUG-1999: 99US-0148565.
PR 13-AUG-1999: 99US-0148684.
PR 16-AUG-1999: 99US-0149368.
PR 17-AUG-1999: 99US-0149175.
PR 18-AUG-1999: 99US-0149426.
PR 20-AUG-1999: 99US-0149722.
PR 20-AUG-1999: 99US-0149723.
PR 20-AUG-1999: 99US-0149929.
PR 23-AUG-1999: 99US-0149902.
PR 23-AUG-1999: 99US-0149930.
PR 25-AUG-1999: 99US-0150566.
PR 26-AUG-1999: 99US-0150884.
PR 27-AUG-1999: 99US-0151065.
PR 27-AUG-1999: 99US-0151066.
PR 30-AUG-1999: 99US-0151080.
PR 30-AUG-1999: 99US-0151303.
PR 31-AUG-1999: 99US-0151438.
PR 01-SEP-1999: 99US-0151930.
PR 07-SEP-1999: 99US-0152363.
PR 10-SEP-1999: 99US-0153070.
PR 13-SEP-1999: 99US-0153758.
PR 15-SEP-1999: 99US-0154018.
PR 16-SEP-1999: 99US-0154039.
PR 20-SEP-1999: 99US-0154779.
PR 22-SEP-1999: 99US-0155139.
PR 23-SEP-1999: 99US-0155486.

PR 24-SEP-1999: 99US-0155659.
PR 28-SEP-1999: 99US-0156458.
PR 29-SEP-1999: 99US-0156596.
PR 04-OCT-1999: 99US-0157117.
PR 05-OCT-1999: 99US-0157753.
PR 06-OCT-1999: 99US-0157865.
PR 07-OCT-1999: 99US-0158029.
PR 08-OCT-1999: 99US-0158232.
PR 12-OCT-1999: 99US-0158369.
PR 13-OCT-1999: 99US-0158293.
PR 13-OCT-1999: 99US-0159294.
PR 13-OCT-1999: 99US-0159295.
PR 14-OCT-1999: 99US-0159329.
PR 14-OCT-1999: 99US-0159330.
PR 14-OCT-1999: 99US-0159331.
PR 14-OCT-1999: 99US-0159637.
PR 14-OCT-1999: 99US-0159638.
PR 18-OCT-1999: 99US-0159584.
PR 21-OCT-1999: 99US-0160741.
PR 21-OCT-1999: 99US-0160767.
PR 21-OCT-1999: 99US-0160768.
PR 21-OCT-1999: 99US-0160770.
PR 21-OCT-1999: 99US-0160814.
PR 21-OCT-1999: 99US-0160815.
PR 22-OCT-1999: 99US-0160980.
PR 22-OCT-1999: 99US-0160981.
PR 22-OCT-1999: 99US-0160989.
PR 25-OCT-1999: 99US-0161404.
PR 25-OCT-1999: 99US-0161405.
PR 25-OCT-1999: 99US-0161406.
PR 26-OCT-1999: 99US-0161359.
PR 26-OCT-1999: 99US-0161360.
PR 26-OCT-1999: 99US-0161361.
PR 28-OCT-1999: 99US-0161920.
PR 28-OCT-1999: 99US-0161992.
PR 28-OCT-1999: 99US-0161993.
PR 29-OCT-1999: 99US-0162142.

Query Match 1.9%; Score 20; DB 21; Length 960;
Best Local Similarity 100.0%; Pred. No. 4.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 512 attcactctgattcttc 931
DB 224 attcactctgattcttc 205

RESULT 21
AAZ76456/c
ID AAZ76456 standard; DNA: 19 BP.
AAZ76456:
XX 10-SEP-2001 (first entry)
DE Human diallelic marker downstream amplification primer SEQ ID NO:10812.
XX
XX Homo sapiens.
XX
XX WO9554500-A2.
XX
XX 28-OCT-1999.
XX
XX 21-APR-1999: 99MO-1B00822.
XX
XX 21-APR-1998: 98US-0082614.
XX
XX 23-NOV-1998: 98US-0109732.

Human genome: diallelic marker; high density disequilibrium map;
genomic map: haplotype; phenotype: polymorphic bases; genotyping;
haplotyping: hybridisation; identification: characterisation;
amplification: single nucleotide polymorphism; SNP; PCR primer;
diagnosis: ss.
```

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XX (GEST ) GENSET.
PA Cohen D, Blumenfeld M, Chumakov I;
XX WPI: 2000-013267/01.
XX Novel biallelic markers used to construct a high density disequilibrium
PT map of the human genome
XX Claim 9; Page 2535; 2745pp; English.
XX AA265654 to AA269578 represent human biallelic markers from the present
CC invention, which contain a polymorphic base at position 24 of their
CC nucleotide sequences. AA269579 to AA277440 represent amplification
CC primers for the biallelic markers. The biallelic markers of the
CC invention have a variety of uses: they can be used for high density
CC mapping of the human genome, and in complex association studies and
CC haplotyping studies which are useful in determining the genetic basis
CC for disease states. Compositions and methods of the invention can also
CC be useful for the identification of the targets for the development of
CC pharmaceutical agents and diagnostic methods, as well as the
CC characterisation of the differential efficacious responses to and side
CC effects from pharmaceutical agents acting on a disease as well as other
CC treatment.
CC N.B. The SEQ ID NOS 2852, 2913, 2974, 3035, 3096, 3157, 3227, 3297
CC and 3367, are not actually given a sequence in the Sequence Listing
CC from the present invention.
XX Sequence 19 BP; 7 A; 5 G; 2 G; 5 T; 0 other;
SQ
Query Match 1.8%; Score 19; DB 21; Length 19;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 207 caggaatgctcgtcttaa 225
DB 19 CAGCAATGCTCTGTTAA 1
RESULT 22
AAH69026
ID AAH69026 standard; cDNA; 338 BP.
XX
AC AAH69026;
XX
DT 19-SEP-2001 (first entry)
XX
DE Human cervical cancer marker nucleic acid 300.
XX
KM Cervical cancer; cytostatic; pre-malignant condition; gene therapy; ss.
XX
OS Homo sapiens.
XX
PN WO200142467-A2.
XX
PD 14-JUN-2001.
XX
PE 08-DEC-2000; 2000MO-US33312.
XX
PF 08-DEC-1999; 990S-0169681.
PR 21-DEC-1999; 990S-0171350.
PR 14-MAR-2000; 2000US-0189315.
PR 12-MAY-2000; 2000US-0203791.
PR 09-JUN-2000; 2000US-0210600.
PR 21-JUL-2000; 2000US-0220114.
XX
PA (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.
XX
PI Schlegel R, Deeds J, Berger A, Zhao X;
XX
DR WPI: 2001-375006/39.

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XX New isolated nucleic acid for diagnosing and treating cervical cancer
PT and for assessing and detecting compounds for treating the cancer
XX Claim 1; Page 156; 1051pp; English.
XX The invention relates to novel genes (AAH68727-AAH73143) associated with
CC cervical cancer with cytostatic activity. The nucleic acids and encoded
CC polypeptides are useful: to assess if a patient is afflicted with
CC cervical cancer or has a pre-malignant condition; to monitor the
CC progression of cervical cancer or a premalignant condition in a patient;
CC and to select and/or assess the efficacy of a compound or therapy for
CC inhibiting cervical cancer in a patient. The nucleic acids may also be
CC useful for gene therapy.
XX Sequence 338 BP; 89 A; 79 G; 73 G; 97 T; 0 other;
SQ
Query Match 1.8%; Score 19; DB 22; Length 338;
Best Local Similarity 100.0%; Pred. No. 15;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 319 acagcaaacctaccctcc 337
DB 218 acagcaaacctaccctcc 236
RESULT 23
AAH71896
ID AAH71896 standard; cDNA; 351 BP.
XX
AC AAH71896;
XX
DT 19-SEP-2001 (first entry)
XX
DE Human cervical cancer marker nucleic acid 3170.
XX
KM Cervical cancer; cytostatic; pre-malignant condition; gene therapy; ss.
XX
OS Homo sapiens.
XX
PN WO200142467-A2.
XX
PD 14-JUN-2001.
XX
PE 08-DEC-2000; 2000MO-US33312.
XX
PF 08-DEC-1999; 990S-0169681.
PR 21-DEC-1999; 990S-0171350.
PR 14-MAR-2000; 2000US-0189315.
PR 12-MAY-2000; 2000US-0203791.
PR 09-JUN-2000; 2000US-0210600.
PR 21-JUL-2000; 2000US-0220114.
XX
PA (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.
XX
PI Schlegel R, Deeds J, Berger A, Zhao X;
XX
DR WPI: 2001-375006/39.
XX
PT New isolated nucleic acid for diagnosing and treating cervical cancer
XX and for assessing and detecting compounds for treating the cancer
XX Claim 1; Page 626; 1051pp; English.
XX The invention relates to novel genes (AAH68727-AAH73143) associated with
CC cervical cancer with cytostatic activity. The nucleic acids and encoded
CC polypeptides are useful: to assess if a patient is afflicted with
CC cervical cancer or has a pre-malignant condition; to monitor the
CC progression of cervical cancer or a premalignant condition in a patient;
CC and to select and/or assess the efficacy of a compound or therapy for
CC inhibiting cervical cancer in a patient. The nucleic acids may also be
CC useful for gene therapy.

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XX
SQ Sequence 351 BP; 98 A; 78 C; 73 G; 102 T; 0 other;

Query Match 1.8%; Score 19; DB 22; Length 351;
Best Local Similarity 100.0%; Pred. No. 15;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 319 acagcaaacctactcttc 337
|||
DB 208 acagcaaacctactcttc 226

RESULT 24

AAH70689
ID AAH70689 standard; cDNA; 494 BP.

AC AAH70689;

DT 19-SEP-2001 (first entry)

DE Human cervical cancer marker nucleic acid 1963.

KW Cervical cancer; cytostatic; pre-malignant condition; gene therapy; ss.

OS Homo sapiens.

XX WO200142467-A2.

XX 14-JUN-2001.

PF 08-DEC-2000; 2000WO-US33312.

PR 08-DEC-1999; 99US-0169681.

PR 21-DEC-1999; 99US-0171350.

PR 14-MAR-2000; 2000US-0189315.

PR 12-MAY-2000; 2000US-0203791.

PR 09-JUN-2000; 2000US-0210600.

PR 21-JUL-2000; 2000US-0220114.

XX (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.

PA Schlegel R, Deeds J, Berger A, Zhao X;

PI Schlegel R, Deeds J, Berger A, Zhao X;

DR WPI: 2001-375006/39.

XX New isolated nucleic acid for diagnosing and treating cervical cancer

PT and for assessing and detecting compounds for treating the cancer -

XX Claim 1; Page 420-421; 1051pp; English.

PS The invention relates to novel genes (AAH68727-AAH73383) associated with

CC cervical cancer with cytostatic activity. The nucleic acids and encoded

CC polypeptides are useful: to assess if a patient is afflicted with

CC cervical cancer or has a pre-malignant condition; to monitor the

CC progression of cervical cancer or a premalignant condition in a patient;

CC and to select and/or assess the efficacy of a compound or therapy for

CC inhibiting cervical cancer in a patient. The nucleic acids may also be

XX useful for gene therapy.

SO Sequence 494 BP; 128 A; 106 C; 114 G; 146 T; 0 other;

Query Match 1.8%; Score 19; DB 22; Length 494;

Best Local Similarity 100.0%; Pred. No. 15;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 319 acagcaaacctactcttc 337
|||
DB 220 acagcaaacctactcttc 238

RESULT 25

AAH72662/c
ID AAH72662 standard; cDNA; 494 BP.

AC AAH72662;

DT 19-SEP-2001 (first entry)

DE Human cervical cancer marker nucleic acid 3936.

KW Cervical cancer; cytostatic; pre-malignant condition; gene therapy; ss.

OS Homo sapiens.

XX WO200142467-A2.

XX 14-JUN-2001.

PF 08-DEC-2000; 2000WO-US33312.

PR 08-DEC-1999; 99US-0169681.

PR 21-DEC-1999; 99US-0171350.

PR 14-MAR-2000; 2000US-0189315.

PR 12-MAY-2000; 2000US-0203791.

PR 09-JUN-2000; 2000US-0210600.

PR 21-JUL-2000; 2000US-0220114.

XX (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.

PA Schlegel R, Deeds J, Berger A, Zhao X;

PI Schlegel R, Deeds J, Berger A, Zhao X;

DR WPI: 2001-375006/39.

XX New isolated nucleic acid for diagnosing and treating cervical cancer

PT and for assessing and detecting compounds for treating the cancer -

XX Claim 1; Page 787; 1051pp; English.

CC The invention relates to novel genes (AAH68727-AAH73383) associated with

CC cervical cancer with cytostatic activity. The nucleic acids and encoded

CC polypeptides are useful: to assess if a patient is afflicted with

CC cervical cancer or has a pre-malignant condition; to monitor the

CC progression of cervical cancer or a premalignant condition in a patient;

CC and to select and/or assess the efficacy of a compound or therapy for

CC inhibiting cervical cancer in a patient. The nucleic acids may also be

XX useful for gene therapy.

SO Sequence 494 BP; 147 A; 101 C; 101 G; 143 T; 2 other;

Query Match 1.8%; Score 19; DB 22; Length 494;

Best Local Similarity 100.0%; Pred. No. 15;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 319 acagcaaacctactcttc 337
|||
DB 249 ACAGCAAACTACTCTTCC 231

RESULT 26

AAH22252
ID AAH22252 standard; DNA; 861 BP.

AC AAH22252;

DT 18-MAY-1999 (first entry)

DE Human secreted protein gene 42 clone HSNAD72.

KW Human: secreted protein; gene therapy; protein therapy; cancer; weight;

KW tumour; chromosome mapping; forensic; haematological disease; allergy;

KW inflammation; cell proliferation; viral infection; wound healing;

KW modulation; appetite; behaviour; food additive; preservative; ss.

XX

OS Homo sapiens.
 XX
 PN W09903990-A1.
 XX
 PD 28-JAN-1999.
 XX
 PF 15-JUL-1998; 98WO-US14613.
 XX
 PR 18-AUG-1997; 97US-0056361.
 PR 16-JUL-1997; 97US-0052861.
 PR 16-JUL-1997; 97US-0052870.
 PR 16-JUL-1997; 97US-0052871.
 PR 16-JUL-1997; 97US-0052872.
 PR 16-JUL-1997; 97US-0052873.
 PR 16-JUL-1997; 97US-0052874.
 PR 16-JUL-1997; 97US-0052875.
 PR 22-JUL-1997; 97US-0053440.
 PR 22-JUL-1997; 97US-0053441.
 PR 22-JUL-1997; 97US-0053442.
 PR 18-AUG-1997; 97US-0055683.
 PR 18-AUG-1997; 97US-0055724.
 PR 18-AUG-1997; 97US-0055725.
 PR 18-AUG-1997; 97US-0055726.
 PR 18-AUG-1997; 97US-0055946.
 PR 18-AUG-1997; 97US-0055952.
 PR 18-AUG-1997; 97US-0055985.
 PR 18-AUG-1997; 97US-0055989.
 PR 18-AUG-1997; 97US-0056359.
 XX
 PA (HUMA-) HUMAN GENOME SCI INC.
 XX
 PI Duan R, Feng P, Ferrie AM, Florence KA, Fouad J;
 PI Greene JM, Hu J, Ni J, Rosen CA, Ruben SM, Young PE;
 PI Yu G;
 DR WPI: 1999-132234/11.
 DR P-PSDB: AA01424.
 XX
 PT New nucleic acids encoding secreted human proteins - potentially
 PT useful for treating and diagnosing diseases and identifying specific
 PT binding agents
 XX
 PS Claim 4; Page 190-191; 251pp; English.

XX The invention relates to nucleic acid sequences (AAx22211 to AAx22282)
 CC encoding human secreted proteins (AA01383 to AA01454). The secreted
 CC protein gene sequences are deposited with the ATCC under deposit number
 CC ATCC 209138, 209139 or 209141. Host cells containing vectors comprising
 CC the nucleic acid sequences are used for the recombinant expression of
 CC the secreted proteins. The polynucleotide and amino acid sequences are
 CC useful for preventing, treating or ameliorating medical conditions e.g.
 CC by protein or gene therapy. Pathological conditions can be also diagnosed
 CC by determining the amount of the new polypeptides in a sample or by the
 CC presence of mutations in the new polynucleotides. The nucleic acid
 CC sequences, or its fragments, are useful for chromosome identification
 CC and mapping; as antisense and triplex-forming therapeutics; in gene
 CC therapy; for (forensic) identification of individuals; as molecular
 CC weight markers; to identify related sequences or specific mRNA; in
 CC preparation of oligomers and to raise anti-DNA antibodies. Antibodies are
 CC useful as immunoassay reagents (including for in vivo imaging) and
 CC therapeutically to inhibit or activate particular polypeptides. A very
 CC wide range of disorders may be treated with the polynucleotide and
 CC polypeptide sequences, e.g. autoimmune or haematological diseases,
 CC allergy, inflammation, cancer or other forms of cell proliferation, viral
 CC or other infections. The sequences may also be useful in wound healing,
 CC to modulate differentiation of embryonic stem cells, to modulate weight,
 CC appetite, behaviour etc. and as food additive or preservative. The
 CC present sequence represents a gene encoding a human secreted protein
 CC (see descriptor line for gene number and clone identification).
 XX
 SO Sequence 861 BP; 222 A; 226 C; 164 G; 245 T; 4 other;

Query Match 1.8%; Score 19; DB 20; Length 861;
 Best Local Similarity 100.0%; Pred. No. 15;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 730 agcccttgcatcttcctt 748
 11111111111111111111
 Db 357 agcccttgcatcttcctt 375

RESULT 27

AA071405
 ID AA071405 standard; DNA: 1864 BP.

XX
 AC AA071405;

DT 18-APR-1991 (first entry)

DE Sequence of ANS-1 which increases transformation efficiency.

XX Enzyme: fungal expression vector; Aspergillus expression vector;
 KM Trichoderma; ds.

XX Mucor miehei.

PN EP215594-A.

PD 25-MAR-1987.

PF 27-AUG-1986; 86EP-0306624.

PR 07-JUL-1986; 86US-0882224.

PR 29-AUG-1985; 85US-0771374.

XX (GENE-) GENENCOR INC.

PI Cullen D, Gray GL, Hayenga KJ, Lawlis VB;
 PI WPI: 1987-095049/14.

PT New DNA sequences for expressing polypeptide in filamentous fungi
 PT - with secretion of prod. from the cells, and new vectors and
 PT transformed fungi

XX
 PS Example: Fig 13; 45pp; English.

XX A DNA sequence coding for a heterologous polypeptide which can be
 CC expressed in and secreted from filamentous fungi is claimed. Pref.

CC the DNA sequence codes for bovine preprothymosin, H. meihei

CC preprocarboxyl protease or A. niger preproglucosylase. Also new

CC are vectors consisting of the DNA sequence plus an operably-linked

CC signal sequence. The vectors may also include a sequence which

XX increases transformation efficiency, e.g. ANS-1.
 SO Sequence 1864 BP; 786 A; 210 C; 44 G; 732 T; 92 other;

Query Match 1.8%; Score 19; DB 8; Length 1864;
 Best Local Similarity 100.0%; Pred. No. 15;

Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 44 ttattttaaatataacta 62
 11111111111111111111

Db 1161 ttattttaaatataacta 1179

RESULT 28

AA078892
 ID AA078892 standard; DNA: 1864 BP.

XX
 AC AA078892;

DT 17-DEC-1995 (first entry)

PR 21-JAN-2000; 2000US-0488725.
PR 25-APR-2000; 2000US-0552317.
PR 09-JUL-2000; 2000US-0598042.
PR 19-JUL-2000; 2000US-0620312.
PR 03-AUG-2000; 2000US-0653450.
PR 14-SEP-2000; 2000US-0662191.
PR 19-OCT-2000; 2000US-0693036.
PR 29-NOV-2000; 2000US-0727344.
XX
XX (HXSE-) HXSEQ INC.
XX
XX Tang YT, Liu C, Asundi V, Chen R, Ma Y, Qian XB, Ren F, Wang D;
PI Wang J, Wang Z, Wehman T, Xu C, Xue AJ, Yang Y, Zhang J;
PI Zhao QA, Zhou P, Goodrich R, Drmanac RT;
XX
XX WPI: 2001-442253/47.
DR P-PSDB; AAM40157.
XX
XX Novel nucleic acids and polypeptides, useful for treating disorders
PT such as central nervous system injuries -
XX
XX Claim 1: SEQ ID NO 1516; 10078pp; English.
XX
XX The invention relates to human nucleic acids (AA157798-AA161369) and
CC the encoded polypeptides (AAM38642-AAM42213) with nootropic,
CC immunosuppressant and cytostatic activity. The polynucleotides are useful
CC in gene therapy. A composition containing a polypeptide or polynucleotide
CC of the invention may be used to treat diseases of the peripheral nervous
CC system, such as peripheral nervous injuries, peripheral neuropathy and
CC localised neuropathies and central nervous system diseases, such as
CC Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic
CC lateral sclerosis, and Shy-Drager Syndrome. Other uses include the
CC utilisation of the activities such as: immune system suppression,
CC activation/inhibition activity, chemotactic/chemokinetic activity, haemostatic
CC and thrombolytic activity, cancer diagnosis and therapy, drug screening
CC assays for receptor activity, arthritis and inflammation, leukaemias and
CC C.N.S disorders.
CC Note: The sequence data for this patent did not form part of the printed
CC specification.
XX
XX Sequence 2706 BP; 788 A; 559 C; 604 G; 755 T; 0 other;
SQ

Query Match 1.8%; Score 19; DB 22; Length 2706;
Best Local Similarity 100.0%; Pred. No. 16;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 729 gagcctctgcatcttcct 747
|||||
DB 1614 GAGCCTCTTCATTTCTT 1596

RESULT 31
AA13252/c
ID AAX13252 standard; DNA; 4605 BP.
XX
XX AAX13252:
AC
XX
DT 19-MAR-1999 (first entry)
XX
XX Enterococcus faecalis genome contig SEQ ID NO:315.
DE
XX
XX Enterococcus faecalis; contig; detection: Enterococcal infection;
KM vaccine; attenuation; computer readable medium; ds.
XX
OS Enterococcus faecalis.
XX
XX WO9850555-A2.
XX
XX 12-NOV-1998.
XX
XX 04-MAY-1998; 98WO-US08985.
XX
XX

PR 14-NOV-1997; 97US-6066005.
PR 06-MAY-1997; 97US-0044031.
PR 16-MAY-1997; 97US-0046655.
XX
XX (HUMA-) HUMAN GENOME SCI INC.
XX
PI Barash SC, Dillon PJ, Kunsch CA;
XX
XX WPI: 1999-045171/04.
DR
XX
XX New isolated Enterococcus faecalis polynucleotides and polypeptides
PT - used to develop products for the detection of Enterococcus and for
PI use in vaccines for prevention or attenuation of Enterococcus
PI infection.
XX
XX Claim 1: Page 1397-1399; 2084pp; English.
XX
XX A computer readable medium has been developed which has recorded on it
CC 582 nucleotide sequences isolated from the Enterococcus faecalis genome.
CC AAX12538 to AAX13919 represent these nucleotide sequences which are
CC primary nucleotide sequences, also known as contigs. The computer-based
CC system can identify fragments of the Enterococcus faecalis genome with
CC commercial importance. The products can be used to detect the presence
CC of Enterococcus faecalis in samples. They can also be used for
CC diagnosing Enterococcal infection in an animal and monitoring
CC progression of disease, and for identifying agents which can be used to
CC modulate the growth or pathogenicity of Enterococcus faecalis, or
CC another related organism, in vivo or in vitro. In particular the
CC polypeptides encoded by the Enterococcus faecalis nucleotide sequences
CC can be used in vaccines to prevent or attenuate an Enterococcal
CC infection.
XX
XX Sequence 4605 BP; 1371 A; 1019 C; 707 G; 1501 T; 7 other;
SQ

Query Match 1.8%; Score 19; DB 20; Length 4605;
Best Local Similarity 100.0%; Pred. No. 16;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 752 accattttaactgattca 770
|||||
DB 3492 ACCATTITTTACTGATTCA 3474

RESULT 32
AAH33754
ID AAH33754 standard; cDNA; 291 BP.
XX
XX AAH33754:
AC
XX
DT 03-SEP-2001 (first entry)
XX
XX Human colon cancer antigen encoding cDNA SEQ ID NO:810.
DE
XX
XX Human; colon cancer; colon cancer antigen; diagnosis; detection;
KM colorectal carcinoma; ss.
XX
XX Homo sapiens.
XX
XX WO200122520-A2.
XX
XX 05-APR-2001.
PD
XX
XX 28-SEP-2000; 2000WO-US26524.
PF
XX
XX 29-SEP-1999; 99US-0157137.
PR 03-NOV-1995; 99US-0163280.
XX
XX (HUMA-) HUMAN GENOME SCI INC.
XX
XX Ruben SM, Barash SC, Birse CE, Rosen CA;
PI WPI: 2001-235357/24.
XX
XX


```

XX      Novel nucleic acids and peptides derived from open reading frame X,
PT      useful for treating e.g. cancers, proliferative disorders,
PT      neurodegenerative disorders and cardiovascular disease.
XX
PS      Claim 5; Page 1878-1879; 5507pp; English.
XX
CC      AAC74446 to AAC77606 encode the proteins given in AAB40237 to AAB43357,
CC      which represent the human ORFX open reading frames 1 to 3161. The ORFX
CC      sequences have activities such as: cytostatic; hepatotropic; vulnery;
CC      antiproliferative; antiparasitoid; nocotropic; neuroprotective;
CC      osteopathic; anticonvulsant; antichronic; immunosuppressive;
CC      immunostimulant; cardiac; thrombolytic; coagulant; vasotropic;
CC      antidiabetic; hypotensive; dermatological; immunosuppressive;
CC      antinflammatory; antibacterial; antiviral; antifungal; antirheumatic;
CC      antihypertensive; and antianemic. The sequences can be used for determining
CC      the presence of or predisposition to, or preventing or treating
CC      pathological conditions associated with an ORFX-associated disorder. The
CC      nucleic acids can be used to express ORFX proteins in gene therapy
CC      vectors. The proteins and nucleic acids may be used to treat cancers,
CC      proliferative disorders, neurodegenerative disorders, osteoarthritis,
CC      graft vs host disease, cardiovascular disease, diabetes mellitus,
CC      hypertension, hypothyroidism, cholesterol ester storage, systemic lupus
CC      erythematosus, severe combined immunodeficiency (SCID), AIDS, viral,
CC      bacterial or fungal infection, malaria, autoimmune disorders, asthma,
CC      allergies, aplastic anaemia, burns, wounds, bone and cartilage damage,
CC      nocturnal haemoglobinuria, antinflammatory disease; to enhance
CC      coagulation; to inhibit thrombosis; and as a contraceptive.
XX
SO      Sequence 1569 BP; 356 A; 487 C; 358 G; 367 T; 1 other;

Query Match      1.7%; Score 18; DB 21; Length 1569;
Best Local Similarity 100.0%; Pred. No. 49;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      839 acattcaccatgcacacat 856
        |||||
DB      540 acattcaccatgcacacat 557

RESULT 35
AAQ22695/c
ID      AAQ22695 standard; DNA; 1752 BP.
XX
AC      AAQ22695;
XX
DT      24-JUL-1992 (first entry)
XX
DE      Sequence encoding mitochondrial NAD(P)+-dependent malate enzyme.
XX
KM      Carbon metabolism; pyruvate formation; ss.
XX
OS      Homo sapiens.
XX
FH      Key      Location/Qualifiers
FT      CDS      1..1752
FT      /tag= a
XX
PD      DE4028618-A.
XX
PD      12-MAR-1992.
XX
PF      08-SEP-1990; 90DE-4028618.
XX
PR      08-SEP-1990; 90DE-4028618.
PR      19-JUN-1991; 91DE-4120178.
XX
PA      (BOEH ) BOEHRINGER INGELHEIM.
XX
PT      Dworkin MB, Loeber G, Krystek E, Maurer-Fogy I;
XX
PS      WPI; 1992-089407/12.

```

```

DR      P-PSDB; AAR21845.
XX
XX      Human mitochondrial NAD(P)-dependent malate enzyme - used to
PT      study formation of pyruvate from aminoacid(s) in tumour cells
XX
PS      Claim 2; Page 12-13; 20pp; German.
XX
CC      The inventors claim mitochondrial NAD(P)+-dependent malate enzyme
CC      and DNA encoding it. AAR21845 has 5' and 3' non-coding regions. The
CC      enzyme catalyses conversion of malate to pyruvate. Both the DNA and
CC      the enzyme are useful for studying carbon metabolism in rapidly
CC      dividing cells, esp. pyruvate formation from amino acids.
XX
SO      Sequence 1752 BP; 562 A; 326 C; 386 G; 478 T; 0 other;

Query Match      1.7%; Score 18; DB 13; Length 1752;
Best Local Similarity 100.0%; Pred. No. 49;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      77 tggaaaaataaacatt 94
        |||||
DB      1416 TGGAAAATATATACATT 1399

RESULT 36
AAQ23258/c
ID      AAQ23258 standard; DNA; 1923 BP.
XX
AC      AAQ23258;
XX
DT      31-JUL-1992 (first entry)
XX
DE      Mitochondrial NAD(P)+-dependent malate enzyme.
XX
KM      C-metabolism; tumour; pyruvate; T-lymphocyte; ss.
XX
OS      Homo sapiens.
XX
FH      Key      Location/Qualifiers
FT      CDS      90..1844
FT      /tag= a
FT      /product= malate-enzyme
FT      sig-peptide 90..149
FT      mat-peptide 150..1844
FT      /tag= b
FT      polyA-signal 1905..1910
FT      /tag= c
FT      /tag= d
FT      /note= "homologous to poly(A) signal AATAAA"
XX
XX      WO9204448-A.
XX
XX      15-MAR-1992.
XX
PD      23-AUG-1991; 91WO-EP01602.
XX
PR      19-JUN-1991; 91DE-4120178.
PR      08-SEP-1990; 90DE-4028618.
XX
PA      (BOEH ) BOEHRINGER INGELHEIM.
XX
PT      Dworkin MB, Loeber G, Krystek E, Maurerfogy I, Frubbeis B;
XX
PS      WPI; 1992-114355/14.
XX
XX      P-PSDB; AAR23356.
XX
XX      New human mitochondrial malate enzyme and DNA encoding it - for
PT      studying carbon metabolism in cells, also specific antibodies for
PT      purification and assay
XX
XX      Claim 1; Page 46 + Fig 3; 60pp; German.

```

CC The sequence may be used to study C-metabolism in rapidly dividing
CC (tumour) cells, esp. pyruvate formation from amino acids
CC The enzyme was first isolated from the supernatant of mitochondrial
CC preparations from the transformed human T-lymphocyte cell line
CC 1301. tryptic fragments were partially sequenced and used as a
CC basis for the design of oligonucleotides. These were used in PCR
CC for amplification of malate enzyme encoding DNA in a cDNA bank
CC prep'd. from fibrosarcoma H5913. Amplified fragments were subcloned
CC in pUC18, sequenced and used to probe the fibrosarcoma bank.
CC A 1923bp insert was isolated and cloned in Bluescript KS+.
CC The poly(A+) tail is not included in this sequence.
XX
SQ Sequence 1923 BP; 598 A; 373 C; 436 G; 516 T; 0 other;

Query Match 1.7%; Score 18; DB 13; Length 1923;
Best Local Similarity 100.0%; Pred. No. 49;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 77 tggaaaaataaacatt 94
|||||
DB 1505 TCGAAAAATATTAACATT 1488

RESULT 37

AAFI8038/c
ID AAFI8038 standard; DNA; 2033 BP.

XX AAFI8038;

DT 14-MAR-2001 (first entry)

XX Lung cancer associated polynucleotide sequence SEQ ID 57.

XX Human; lung cancer associated protein; neuroprotective; cytostatic;
KW cardioactive; immunomodulatory; muscular active; vulnerary;
KW gastrointestinal; nephrotropic; antineoplastic; gynecological;
KW antibacterial; diagnosis; neural disorder; immune disorder; reproductive;
KW proliferative disorder; wound healing; infectious disease; ds.

XX Homo sapiens.

XX WO20005180-A2.

XX 21-SEP-2000.

XX 08-MAR-2000; 2000WO-US05918.

XX 12-MAR-1999; 99US-0124270.

XX (HUMA-) HUMAN GENOME SCT INC.

XX (ROSE/) ROSEN C A.

XX Ruben SM;

XX WPI: 2000-587514/55.

XX P-PSDB: AAB58162.

PT Lung cancer associated gene sequences, referred to as lung cancer
PT antigens, useful for treatment, prevention, and diagnosis of disorders
PT such as lung cancer -

XX Claim 1; Page 536-537; 1425pp; English.

CC Polynucleotide sequences AAFI7982 - AAFI8424 encode human lung cancer
CC associated proteins represented in AAB58106 - AAB58348. Lung cancer
CC associated proteins and polynucleotide sequences, their agonists, and
CC antagonists may have neuroprotective; cytostatic; cardioactive;
CC immunomodulatory; muscular active general; vulnerary; gastrointestinal
CC general; nephrotropic; antineoplastic; gynecological; or antibacterial
CC activity. The invention also includes antibodies specific for the
CC protein or polynucleotide sequences. The lung cancer associated
CC polynucleotide sequences may be used for detection of lung cancer,

CC chromosome identification, as chromosome markers, and for numerous other
CC diagnostic or research purposes. The proteins may be used to treat
CC disorders such as neural, immune, muscular, reproductive,
CC gastrointestinal, pulmonary, cardiovascular, renal, and proliferative
CC disorders. The proteins may also be used in the treatment of wounds and
CC infectious diseases. Polynucleotide sequences AAFI8425 - AAFI8433 and
CC peptide AAB58549 are used in the course of the invention for the
CC identification and characterisation of the polynucleotide and protein
CC sequences.
XX
SQ Sequence 2033 BP; 399 A; 623 C; 628 G; 370 T; 13 other;

Query Match 1.7%; Score 18; DB 21; Length 2033;
Best Local Similarity 100.0%; Pred. No. 49;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 720 ctgactctgagcctctt 737
|||||
DB 1902 CTGACTCTGAGCCTCTT 1885

RESULT 38

AAQ13822/c
ID AAQ13822 standard; cDNA; 3060 BP.

XX AAQ13822;

DT 10-DEC-1991 (first entry)

XX Human GAP b3 gene.

XX Galactoprotein b3; carcinoma; cancer; tumour; ss.

XX Homo sapiens.

XX key Location/Qualifiers

FT CDS 1..3060

FT /tag= a

XX WO9113983-A.

XX 19-SEP-1991.

XX 08-APR-1991; 91WO-US01606.

XX 12-MAR-1990; 90US-0491910.

XX (BIOM-) BIONEERANE INST.

XX Tsuji T, Yamamoto F, Hakomori S;

XX WPI: 1991-295637/40.

XX P-PSDB: AAK1118.

PT DNA sequences encoding galactoprotein b3 - produced using DNA
PT constructs also antibodies to Gap b3 used to detect tumours that
PT result in elevated expression of protein.

XX Claim 1; Fig 6; 46pp; English.

CC The sequence was obt'd. from 3 overlapping clones isolated from
CC a human 124 cell line cDNA library. The DNA can be used to express
CC the gap b3 protein which is a transformation-dependent cell surface
CC glycoprotein. The protein may be used to produce antibodies and
CC these, or the DNA sequences, can be used to detect and quantify
CC levels of gap b3 protein or mRNA in biological samples. A high
CC level of the protein is indicative of certain cancers.
CC See also AAQ13821-Q13824.

XX Sequence 3060 BP; 643 A; 913 C; 910 G; 594 T; 0 other;

Query Match 1.7%: Score 18; DB 12; Length 3060;
Best Local Similarity 100.0%; Pred. No. 49;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 507 ctctgctgctgctctga 524
|||||
DB 1818 CTCTGCTGCTGCTCTGA 1801

RESULT 39
AAV23920/C
ID AAV23920 standard; DNA: 4636 BP.
XX
AC AAV23920;
XX
DT 31-JUL-1998 (first entry)
XX
DE Human alpha3 integrin coding sequence.
XX
KM Anti-integrin alpha3 antibody; human; anti-tumour agent; ss.
KW chemotherapeutic drug; ss.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT CDS 73..3328
FT /*tag= a
XX
PN WO9809651-A1.
XX
PD 12-MAR-1998.
XX
PE 03-SEP-1997; 97WO-JP03085.
XX
PR 03-SEP-1996; 96JP-0250887.
XX
PA (CHUS) CHUGAI SEIYAKU KK.
XX
PI Hayakawa T, Kawata H, Sekimori Y, Shimizu K, Tomiura E;
XX
DR WPI: 1998-193327/17.
XX
DR P-PSDB: AAM54032.
XX
PT Anti-integrin alpha3 antibody and chemotherapeutic drug - useful in
XX
PT anti-tumour agents and diagnostic reagent compositions
XX
PS Disclosure: Page 68-76; 96pp; Japanese.
XX
CC This sequence encodes the human alpha3 integrin protein. The alpha3
XX
CC integrin sequence is targeted by the anti-integrin alpha3 antibody of the
XX
CC invention. The anti-integrin alpha 3 antibody or its antigen binding
XX
CC fragment are for use as anti-tumour agents, and diagnostic reagent
XX
CC compositions. They can also be used in a chemotherapeutic drug.
XX
SO Sequence 4636 BP; 961 A; 1452 C; 1336 G; 887 T; 0 other;

Query Match 1.7%: Score 18; DB 19; Length 4636;
Best Local Similarity 100.0%; Pred. No. 50;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 507 ctctgctgctgctctga 524
|||||
DB 1986 CTCTGCTGCTGCTCTGA 1969

RESULT 40
AAA68247/C
ID AAA68247 standard; DNA: 41708 BP.
XX
AC AAA68247;
XX
DT 27-OCT-2000 (first entry)

XX
DE Bacteriophage 77 complete genome sequence.
XX
KM Bacteriophage: antimicrobial; genome; identification; antibacterial;
XX
KM bacterial growth inhibition; bacterial infection; ds.
XX
OS Bacteriophage 77.
XX
PN WO200032825-A2.
XX
PD 08-JUN-2000.
XX
PE 03-DEC-1995; 99WO-IB02040.
XX
PR 03-DEC-1996; 98US-0110592.
PR 03-JUN-1995; 99US-0326144.
PR 28-SEP-1995; 99US-0407804.
PR 30-SEP-1995; 99US-0157218.
PR 01-DEC-1995; 99US-0168777.
PR 02-DEC-1995; 99US-0454252.
XX
PA (PHAG-) PHAGETECH INC.
XX
PI Pelletier J, Gros P, Dubow M;
XX
DR WPI: 2000-412361/35.
XX
PT Identifying a bacteriophage coding region for treating bacterial
XX
PT infections comprises identifying a nucleic acid encoding a product that
XX
PT inhibits bacteria when a bacteriophage infects a bacterium
XX
PS Example 3: Page 141-151; 456pp; English.
XX
CC The present invention describes a method for identifying a bacteriophage
XX
CC coding region encoding a product active on an essential bacterial
XX
CC target. The method comprises identifying a nucleic acid sequence encoding
XX
CC a gene product that provides a bacteria-inhibiting function when an
XX
CC uncharacterised bacteriophage infects a pathogenic bacterium. The
XX
CC compound active on a target of a bacteriophage inhibitor protein in a
XX
CC bacteria is used to treat or prevent a bacterial infection in an animal.
XX
CC AAA68243 to AAA69442 and AAB16523 to AAB16954 represent bacteriophage
XX
CC nucleotide and protein sequences which are used in the exemplification of
XX
CC the present invention.
XX
SO Sequence 41708 BP; 15607 A; 5898 C; 8088 G; 12115 T; 0 other;

Query Match 1.7%: Score 18; DB 21; Length 41708;
Best Local Similarity 100.0%; Pred. No. 52;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 957 ctctgacctgataaa 974
|||||
DB 30283 CTCTGACCTGTATTA 30266

RESULT 41
AAC86106/C
ID AAC86106 standard; cDNA: 41708 BP.
XX
AC AAC86106;
XX
DT 29-AUG-2001 (first entry)
XX
DE Complete genome of bacteriophage 77.
XX
KM DnaI, S. aureus; inhibitor; bacteriophage 77; ORF 104; phage 77ORF104;
XX
KM screening assay; ss.
XX
OS Bacteriophage 77.
XX
PN WO200146383-A2.
XX

PD 28-JUN-2001.
 XX
 PF 21-DEC-2000; 2000MO-US35180.
 XX
 PR 22-DEC-1999; 99US-0470512.
 PR 12-OCT-2000; 2000US-0689952.
 XX
 PA (PHAG-) PHAGETECH INC.
 PA (WILL/) WILLIAMS K M.
 XX
 PI Pelletier J, Gros P, Dubow M;
 PI WPI: 2001-418052/44.
 DR
 XX
 PT Novel DnaI polypeptides useful for treating and diagnosing microbial,
 PT preferably bacterial, diseases such as those caused by *Staphylococcus*
 PT *aureus*.
 CC
 PS Disclosure; Fig 2; 107pp; English.
 XX
 CC This sequence represents the genome of Bacteriophage 77. The
 CC growth inhibitory gene product of ORF 104 interacts with DnaI derived
 CC from *S. aureus*, to form the basis of a screening assay. DnaI
 CC polypeptides and polynucleotides are useful for treating microbial,
 CC preferably bacterial, especially *Staphylococcal*, infections. DnaI
 CC polypeptides and polynucleotides are useful for biological, diagnostic,
 CC prophylactic, clinical and therapeutic use, and as components in
 CC databases useful for search analyses as well as in sequence analysis
 CC algorithms.
 CC
 SQ Sequence 41708 BP; 15607 A; 5898 C; 8088 G; 12115 T; 0 other;

Query Match 1.7%; Score 18; DB 22; Length 41708;
 Best Local Similarity 100.0%; Pred. No. 52;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 957 ctccatgacctgaataa 574
 ||||||||||||||||
 Db 30283 CTTGATGACCTGTAATTA 30266

RESULT 42

ID AAC31204
 XX AAC31204 standard; CDNA; 212 BP.

AC AAC31204;

DT 06-OCT-2000 (first entry)

XX Human secreted protein 5' EST, SEQ ID NO: 35279.

XX Human; 5' EST: expressed sequence tag; secreted protein; CDNA isolation;
 KM gene therapy; chromosome mapping; ss.
 XX
 OS Homo sapiens.

XX EP1033401-A2.

XX 06-SEP-2000.

PF 21-FEB-2000; 2000EP-0200610.

PR 26-FEB-1999; 99US-0122487.

PA (GEST) GENSET.

XX Dumas Milne Edwards J, Duclet A, Giordano J;

XX WPI: 2000-500381/45.

PT New nucleic acid that is a 5' expressed sequence tag (5' EST) for
 obtaining cDNAs and genomic DNAs that correspond to 5'ESTs and for

PI diagnostic, forensic, gene therapy and chromosome mapping procedures -
 PS Claim 1: SEQ ID 35279; 71pp; CD-ROM; English.

CC The present sequence is one of a large number of 5' ESTs derived from
 CC mRNAs encoding secreted proteins. No ORF has yet been conclusively
 CC identified within the present sequence. The 5' ESTs were prepared from
 CC total human RNAs or poly(A⁺ RNAs derived from 30 different tissues. EST
 CC sequences usually correspond mainly to the 3' untranslated region (UTR)
 CC of the mRNA because they are often obtained from oligo-dT primed CDNA
 CC libraries. Such ESTs are not well suited for isolating CDNA sequences
 CC derived from the 5' ends of mRNAs and even in those cases where longer
 CC CDNA sequences have been obtained, the full 5' UTR is rarely included.
 CC 5' ESTs are derived from mRNAs with intact 5' ends and can therefore be
 CC used to obtain full length cDNAs and genomic DNAs. 5' ESTs are also used
 CC in diagnostic, forensic, gene therapy and chromosome mapping procedures.
 CC They are used to obtain upstream regulatory sequences and to design
 CC expression and secretion vectors.

SQ Sequence 212 BP; 64 A; 41 C; 40 G; 66 T; 1 other;

Query Match 1.6%; Score 17; DB 21; Length 212;
 Best Local Similarity 100.0%; Pred. No. 13602;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 967 tgaataatcctcataat 983
 ||||||||||||||||
 Db 43 tgaataatcctcataat 59

RESULT 43

ID AAC10699
 XX AAC10699 standard; CDNA; 314 BP.

AC AAC10699;

DT 06-OCT-2000 (first entry)

XX Human secreted protein 5' EST, SEQ ID NO: 14774.

XX Human; 5' EST: expressed sequence tag; secreted protein; CDNA isolation;
 KW gene therapy; chromosome mapping; ss.
 XX
 OS Homo sapiens.

XX EP1033401-A2.

XX 06-SEP-2000.

PF 21-FEB-2000; 2000EP-0200610.

PR 26-FEB-1999; 99US-0122487.

PA (GEST) GENSET.

XX Dumas Milne Edwards J, Duclet A, Giordano J;

XX WPI: 2000-500381/45.

PT New nucleic acid that is a 5' expressed sequence tag (5' EST) for
 obtaining cDNAs and genomic DNAs that correspond to 5'ESTs and for
 diagnostic, forensic, gene therapy and chromosome mapping procedures -
 PS Claim 1; SEQ ID 14774; 71pp; CD-ROM; English.

CC The present sequence is one of a large number of 5' ESTs derived from
 CC mRNAs encoding secreted proteins. No ORF has yet been conclusively
 CC identified within the present sequence. The 5' ESTs were prepared from
 CC total human RNAs or poly(A⁺ RNAs derived from 30 different tissues. EST
 CC sequences usually correspond mainly to the 3' untranslated region (UTR)
 CC of the mRNA because they are often obtained from oligo-dT primed CDNA
 CC libraries. Such ESTs are not well suited for isolating CDNA sequences

CC derived from the 5' ends of mRNAs and even in those cases where longer
CC cDNA sequences have been obtained, the full 5' UTR is rarely included.
CC 5' ESTs are derived from mRNAs with intact 5' ends and can therefore be
CC used to obtain full length cDNAs and genomic DNAs. 5' ESTs are also used
CC in diagnostic, forensic, gene therapy and chromosome mapping procedures.
CC They are used to obtain upstream regulatory sequences and to design
CC expression and secretion vectors.

XX Sequence 314 BP; 102 A; 68 C; 44 G; 100 T; 0 other;

Query Match 1.6%; Score 17; DB 21; Length 314;
Best Local Similarity 100.0%; Pred. No. 1.5e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 46 atttaaatattacta 62
Db 216 atttaaatattacta 232

RESULT 44

AAH71986 standard; cDNA; 329 BP.

AAH71986;

19-SEP-2001 (first entry)

Human cervical cancer marker nucleic acid 3260.

Cervical cancer; cytostatic; pre-malignant condition; gene therapy; ss.

Homo sapiens.

WC200142467-A2.

14-JUN-2001.

08-DEC-2000; 2000MO-US3312.

08-DEC-1999; 99US-0169681.

21-DEC-1999; 99US-0171350.

14-MAR-2000; 2000US-0189315.

12-MAY-2000; 2000US-0203791.

09-JUN-2000; 2000US-0210600.

21-JUL-2000; 2000US-0220114.

(MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.

Schlegel R, Deeds J, Berger A, Zhao X;

WPI; 2001-375006/39.

New isolated nucleic acid for diagnosing and treating cervical cancer

and for assessing and detecting compounds for treating the cancer

Claim 1: Page 639; 1051pp; English.

The invention relates to novel genes (AAH68727-AAH73383) associated with

cervical cancer with cytostatic activity. The nucleic acids and encoded

polypeptides are useful: to assess if a patient is afflicted with

cervical cancer or has a pre-malignant condition; to monitor the

progression of cervical cancer or a premalignant condition in a patient;

and to select and/or assess the efficacy of a compound or therapy for

inhibiting cervical cancer in a patient. The nucleic acids may also be

useful for gene therapy.

Sequence 329 BP; 117 A; 55 C; 70 G; 87 T; 0 other;

OY 384 tgaagacattaccac 400
Db 55 tgaagacattaccac 71

RESULT 45

AAC54948 standard; DNA; 396 BP.

AAC54948;

18-OCT-2000 (first entry)

Arabidopsis thaliana DNA fragment SEQ ID NO: 75643.

Hybridisation assay; genetic mapping; gene expression control;

protein identification; signal transduction pathway;

metabolic pathway; promoter; termination sequence; ss.

Arabidopsis thaliana.

EP103405-A2.

25-FEB-2000; 2000EP-0301439.

25-FEB-1999; 99US-0121825.

05-MAR-1999; 99US-0123180.

09-MAR-1999; 99US-0123548.

23-MAR-1999; 99US-0125788.

25-MAR-1999; 99US-0126264.

29-MAR-1999; 99US-0126785.

01-APR-1999; 99US-0127462.

06-APR-1999; 99US-0128234.

08-APR-1999; 99US-0128714.

16-APR-1999; 99US-0129845.

19-APR-1999; 99US-0130077.

21-APR-1999; 99US-0130449.

23-APR-1999; 99US-0130510.

28-APR-1999; 99US-0130891.

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PR 28-OCT-1999; 99US-0161922.
PR 28-OCT-1999; 99US-0161953.
PR 29-OCT-1999; 99US-0162142.

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Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 886 aaagaatcaatcctc 502
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Db 321 AAAGCAATATCTCTT 305

Wed May 1 07:51:09 2002

us-09-248-178-63.rng

Search completed: April 30, 2002, 10:55:50
Job time: 11019 sec

XX
PS Claim 3; Page 61; 70pp; English.
XX
CC This sequence encodes a human breast tumour protein immunogenic fragment
CC of the invention. The polypeptides or nucleic acids encoding them are
CC useful in vaccines and pharmaceutical compositions for manufacture of
CC medicaments for inhibiting the development of breast cancer in a patient.
CC They can also be used to treat breast cancer. Antibodies against these
CC polypeptides can be used to detect and monitor progression of breast
CC cancer in patients. Primers and probes derived from the polynucleotides
CC encoding the breast proteins are useful for detection of breast cancer.
CC Peripheral blood cells from a patient incubated in the presence of at
CC least one polypeptide, such that T cells proliferate, are useful in
CC manufacture of a medicament for treating breast cancer in a patient.
CC Antigen presenting cells incubated in the presence of at least one
CC polypeptide are also useful for treating breast cancer.
XX
SQ Sequence 1001 BP; 278 A; 159 C; 160 G; 404 T; 0 other;

Query Match 100.0%; Score 1001; DB 20; Length 1001;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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DB 1 gaatgagcaagatcaagtcaggatctgtgtatccaccacttgcagattatcagat 60
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DB 61 tctatgtccaggaacatttcaagttatctgtctcagcaaggaataataaacttata 120
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DB 181 ggtttgattcatctacacccctcttccattcccttccacacacagtcgaggg 240
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DB 241 cctcagagatatactatctactgctgtctgtgaagaattatcttacttccacaa 300
QY 301 tatgagagaatgcagtcagaaagttttcttccatgctgtctatcttccacttaaca 360
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DB 361 gaccccgcttccatccatgattatataatcccaatagtcgtatataataataata 420
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DB 421 caatatatacaacattgatttgcacataatcatcattgacggaactggttaagtcat 480
QY 481 atcgtgtgcatctgagatgctgcataaacaacgcaagtcgggataataattgaag 540
DB 481 atcgtgtgcatctgagatgctgcataaacaacgcaagtcgggataataattgaag 540
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DB 721 tctaatcttcttcatacaagaatttctgtatcttcttgaaatgagatgtaattcaccttat 780
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DB 961 ctgatatagaatcatgcatctaccacaaataaaaaaa 1001

RESULT 2

AACT9439
ID AACT9439 standard; CDNA: 1001 BP.

AACT9439;

07-FEB-2001 (first entry)

CDNA sequence of human breast tumour clone 1012H8.

Human: breast tumour antigen; cytosolic; immunotherapy;

Breast cancer; vaccine; SS.

Homc sapiens.

W020061756-A2.

19-OCT-2000.

10-APR-2000; 2000MD-US9668.

09-APR-1995; 990S-0268950.

02-JUL-1995; 990S-0316327.

(CORI-) CORIXA CORP.

Reed SG, Xu J, Dillon DC;

WPI: 2000-636568/61.

A novel isolated polypeptide comprising an immunogenic portion of a breast cancer protein useful in the detection and treatment of breast cancer.

Claim 4; Page 77-78; 95pp; English.

The present sequence was isolated from a breast tumour cDNA library. It is provided in a specification relating to compounds for immunotherapy and diagnosis of breast cancer. Breast tumour antigens and the polynucleotides that encode them may be used in the production of a pharmaceutical composition to be used in the treatment of breast cancer. Proliferated T cells and incubated antigen presenting cells are also required. The polypeptides and polynucleotides may also be used to produce a vaccine.

Sequence 1001 BP; 278 A; 159 C; 160 G; 404 T; 0 other;

Query Match 100.0%; Score 1001; DB 21; Length 1001;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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